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Pomona College

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Annual Catalog

1926-1927



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DIRECTOR OF THE SUMMER SESSION

Alumni Affairs

SECRETARY OF THE ALUMNI ASSOCIATION

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OF COURSES AND GENERAL
INFORMATION

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UNIVERSITY OF ILLINOIS

November, 1926

CLAREMONT · CALIFORNIA
Published by the College

27 COLLEGE CALENDAR

1926

September	14, Tuesday	}	Registration Days for Freshmen
September	15, Wednesday		
September	15, Wednesday	}	Registration Days for Sophomores, Juniors and Seniors. Examinations for entrance.
September	16, Thursday		
September	17, Friday		Convocation, 9:00 a. m.
September	17, Friday		First Semester Classes begin, 10:15 a. m.
October	14, Thursday		Founders Day
November	24, Wednesday		Thanksgiving Recess begins, 4:10 p. m.
November	29, Monday		Thanksgiving Recess ends, 7:30 a. m.
December	17, Friday		Christmas Recess begins, 4:10 p. m.

1927

January	3, Monday		Christmas Recess ends, 7:30 a. m.
January	10, Monday		Kinney Freshman Contest in Declamation, 8 p. m.
January	19, Wednesday	}	Mid-year Examinations
January	29, Saturday		
January	29, Saturday		First Semester ends
January	29, Saturday		Mid-year Graduation
January	31, Monday		Registration Day for underclassmen and specials
February	1, Tuesday		Registration Day for upperclassmen and graduates
February	2, Wednesday		Second Semester Classes begin, 7:30 a. m.
February	17, Thursday		Matriculation Day
February	22, Tuesday		Washington's Birthday
April	1, Friday		Spring Recess begins, 4:10 p. m.
April	12, Tuesday		Spring Recess ends, 7:30 a. m.
May	30, Monday		Memorial Day
June	1, Wednesday	}	Final Examinations
June	9, Thursday		
June	13, Monday		Commencement

SUMMER VACATION

June	20, Monday		Summer Session begins
July	29, Friday		Summer Session ends
September	14, Wednesday	}	Registration Days. Examinations for entrance
September	15, Thursday		
September	16, Friday		Convocation, 9:00 a. m.

CONTENTS

	PAGE
College Calendar	5
Historical Sketch	9
Character of the College	12
Board of Trustees	15
Officers of the Board	16
Committees of the Board	16
Faculty	17
Summer Session—Visiting Faculty	26
Class Officers	27
Committees of the Faculty	27
Admission	28
General Requirements and Methods of Admission	28
Admission to Freshman Standing	28
Admission to Advanced Standing	29
Admission as Special Students	30
Admission of Graduate Students	30
Courses Required for Admission to Freshman Standing	31
Description of Subjects	31
Extra Entrance Credits	31
Registration	32
Matriculation	32
Election of Courses	32
Curriculum	33
Degree of Bachelor of Arts.	33
Hour Requirements	33
Credit Requirements	33
Choice of Subjects	33
Subject Requirements	34
Departmental Major	35
Honors Course	35
Courses in Music and Art	36

Teachers' Certificates	36
Summer Session	36
Music and Drama Course	37
Degree of Master of Arts	37
School of Education	37
Lecture Foundations	39
Outline of Work by Years	40
Courses of Instruction	41
Summer Session—Courses in	82
Administration	85
Public Assemblies	85
Reports	85
Physical Attention	85
General Requirements	86
Expenses	87
Tuition	89
Fees	90
Honors and Prizes	92
Honors at Graduation	92
Honors in Course	92
The Phi Beta Kappa Society	93
Prizes	93
Scholarships and Beneficiary Aid	95
Self-Support	98
Buildings and Equipment	99
The Library	101
Departmental Organizations	102
Student Activities	103
Publications	105
Bureau of Appointments	106
Summary of Students	106
Index	107
Map of Campus	110

HISTORICAL SKETCH

THE history of the development of Southern California from a land sparsely inhabited and apparently fit only for a cattle range, into a genuine American commonwealth with its multitude of prosperous communities, covers little more than forty years; but this brief span of time has been a period of intense activity and remarkable growth. This epoch of swift progress was inaugurated by the completion of a second transcontinental railway, in this case piercing Southern California directly from the East, together with the sudden awakening to a realization of the great agricultural possibilities of the section through irrigation. A large immigration and a rapid increase in land values were at once induced. New towns sprang up almost in a day and great industrial projects characteristic of such a period were at once inaugurated.

While the commercial and speculative interests were conspicuously in evidence there were among the new settlers, nevertheless, many whose chief concern was for the higher values of life and character. Not least among these were those whose former affiliations had been with New England and its institutions. The Southern California District Association of Congregational Churches, meeting in San Bernardino in 1882, agitated the question of founding a college of the New England type. In 1886 the Association met at Lugonia (now Redlands), when the report of the educational committee was an earnest appeal for such a college. At this meeting a larger educational committee than usual was appointed and was instructed to view locations and invite proposals of aid toward establishing a "Christian College of the New England Type." In accordance with these instructions the committee visited various places from which they had received offers of aid and gave the matter serious and careful consideration.

In May, 1887, the District Association met in Los Angeles and became the General Association of Southern California. This General Association immediately gave full power to its committee of education, not only to select the College site, but to appoint trustees for the prospective institution. Fifteen trustees, two of whom are still members of the board, were duly appointed; the College was incorporated October 14, 1887, under the name of The Pomona College; and a site was selected about four miles north of the city of Pomona.

For the immediate needs of the College a small private house was rented in Pomona, and in it the work of instruction was begun in September, 1888. In the following January an unfinished hotel in Claremont (now Sumner Hall), together with considerable land adjacent, was given to the College and the work was transferred to that place. It was originally supposed that this location would be temporary. Later this plan was abandoned and Claremont was made the permanent seat of the College. By this time, however, the name of "Pomona College," tentatively given, had become so definitely fixed that it has been retained notwithstanding the change of location.

The growth of the College has been swift and constant. The first class was graduated in 1894, at which time the total number of college students was forty-seven. For some time the work of the Preparatory School was of large importance, but later on this was discontinued owing to the increased growth and importance of the College. The maximum number which can now be received is 750. This situation allows the College to accept only two hundred and twenty-five Freshmen, one hundred and twenty-five men and one hundred women, and at the present time compels the rejection of a large number of applications. The original campus of about twelve acres has been enlarged by purchase and by gifts until it now comprises approximately four hundred acres; and this area, together with its buildings, is being developed according to plans carefully worked out by competent

landscape gardeners and architects, the whole growth being in accord with one harmonious plan.

The imperative demand for expansion has led to the careful study of the ways in which the obvious advantages of the small college could be maintained while still making possible the gathering together of the equipment that is justified only in a large university. This study has resulted in the adoption of the group plan of affiliated colleges. To this end "Claremont Colleges" was incorporated October 14, 1925, and arrangements are now being completed to found the first of the new units, to be known as Scripps College for Women in honor of Miss Ellen Browning Scripps, whose generosity and vision make it possible.

All this rapid progress of the institution has been made possible by a most generous company of friends who have responded nobly to the calls of higher Christian education and to the needs of young people. From the very beginning the institution has been the creation of sacrifice, affection and idealism. To a remarkable degree the College has been made possible by a great democracy of high-minded givers, and the character of these benefactors is reflected in the daily life and procedure of the College.

While the College was originally Congregational in organization, it long ago made itself the servant of a wider fellowship. The Board of Trustees is a self-perpetuating body, absolutely free from ecclesiastical control and representing different communions, but obliged, nevertheless, by the College Charter to maintain the institution as truly Christian, though unsectarian. From the first it has been the policy of all concerned in the administration of the institution to maintain a high standard of college life and work, and to put the emphasis upon quality in the development of strong and serviceable Christian manhood and womanhood. Thus the purpose for which the College was founded is expressed in its motto, "*Our Tribute to Christian Civilization.*"

CHARACTER OF THE COLLEGE

POMONA COLLEGE is located at Claremont on the Santa Fe and Pacific Electric Railways, thirty-five miles from Los Angeles. It is connected by the Pacific Electric Railway with Pomona, which is four miles distant, on the Union Pacific and Southern Pacific roads. On the rim of an orchard-covered valley, which is hemmed in on all sides by lofty mountains, and with Mt. San Antonio in the immediate background rising to the height of ten thousand feet, its situation is one of rare beauty. The genial southern climate invites to outdoor life and exercise the year round, while the deep canyons, the rushing streams and the long trails to the heart of the hills allure to the rewarding intimacies of nature. The town of Claremont, which now numbers about two thousand inhabitants, owes its existence to the College, and has the attractive features of the typical college community. The location and situation, within easy reach of the great and growing metropolis of the Southwest, and yet in the quiet retirement of valley and hill, is uniquely wholesome and stimulating in full measure to simplicity and thoughtfulness and all the best enthusiasms of which life is capable.

The College is pre-eminently a company of workers. From the very beginning it has maintained a reputation for interest in thorough scholarship rather than in large numbers. The procedures of the College are established in the purpose of appealing to students who appreciate the seriousness of the College opportunity. To this end, the standards of admission are unusually high. Not only is the number limited, but as defined elsewhere, only students who have finished their preparation with a high grade of promise are received. It is the distinct purpose to make the membership in the institution itself a scholastic honor. This inevitably involves a sacrifice of certain values which would be

temporarily pleasurable but which are not consistent with the most remunerative purposes.

It is the habit of the College to urge that scholarship should not only be high but also broad and inclusive. Pomona College is not a professional school. It insists that the best preparation for life includes not only the ample, generous and complete training of the college course, such as is here given, but also at a later period a thorough and definite professional specialization. It has farther insisted that this best and most complete training is practicable for a much larger number of young people than commonly feel that they have the resources of time and money for it. The College is eager to co-operate in the problems of such aspiring students; it has also been singularly successful in permeating its body of students with these ambitions, and the remarkable success of its graduates is due in no small degree to the fact that nearly seventy per cent of all who have graduated have taken subsequent professional training.

To the end that the College may be adequate for the broadest intellectual citizenship and service, a certain number of courses representing typically the differentiated fields of knowledge and investigation are required, and particular emphasis laid upon those topics which relate to the history of thought, the organization of society and the bases of truth and righteousness. These courses are required of all, whether staying a longer or shorter time in the institution, as being important to the main purpose for which the College exists. While these few courses are required, there is around them ample field for selection, according to the student's individual interest and purpose.

The College recognizes the fact that social training is also an essential part of education. It is believed that the co-educational character of the College greatly increases the culture of the student body in this respect. Working together on the highest levels of life, men and women are most likely to associate in mutual respect and dignity. It is practically the unanimous testi-

mony of the graduates of this College that these relations add to the genuine wholesomeness and rounded worth of the student's life. While emphasizing social values and opportunities, the College, however, recognizes them as interests which must be held subordinate to the main business of study and work. For this reason limitations which sometimes may seem narrow are laid upon the social life of the college community. Fraternities and sororities, in the ordinary acceptance of these terms, and extravagant social life, do not exist at Pomona College, and no one should seek the institution who is not willing to make surrender of some personal pleasures in the interests of the common college earnestness and simplicity.

Once more; the College is frankly Christian. It owes its origin and support to men and women of Christian ideals; it cannot, therefore, be other than loyal to these interests. Instead of maintaining a separate Christian life, the College also urgently lays upon its students the obligation of allegiance to that wider democracy of service and uplift which is represented in the Christian Church. The College is, nevertheless, emphatically broad in its hospitality to modern thought. It holds that no student should go out of the College unaware of the throbbing questions of the day or unprepared to face the winds of free discussion; therefore, it welcomes all honest expression of opinion, putting faith in the power of truth to hold its own in the arena of open debate. It thus seeks to resource the coming generation with a leadership of intellectual capacity, directed will and Christian character.

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ARTHUR J. McFADDEN	Santa Ana
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WILLIAM S. MASON	

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JACOB C. HARPER	

FACULTY¹

JAMES ARNOLD BLAISDELL 345 College Ave.

President, 1910

B.A., Beloit College; M.A., Beloit College; D.D., Beloit College; LL.D., Drury College and Occidental College. Graduate, Hartford Theological Seminary.

ERNEST JAMES JAQUA Harvard Ave. N. of Mesa Ave.

Dean of the Faculty and Professor of Education, 1923.

B.A., Grinnell College; M.A., Columbia University; Ph.D., Harvard University.

CYRUS GRANDISON BALDWIN Palo Alto

President Emeritus, 1890

B.A., Oberlin College; M.A., Oberlin College. Student, Andover Theological Seminary; D.D., Oberlin College.

EDWIN CLARENCE NORTON 145 W. Seventh St.

Dean of the Faculty and Professor of the Greek Language and Literature on the Edwin Clarence Norton Foundation, Emeritus, 1888.

B.A., Amherst College; M.A., Amherst College and Yale University; Ph.D., Carleton College; D.D., Pacific Theological Seminary. Graduate Student, Johns Hopkins, Columbia and Oxford Universities.

FRANK PARKHURST BRACKETT 270 E. Third St.

Professor of Astronomy on the Frank Parkhurst Brackett Foundation and Director of the Observatory, 1888.

B.A., Dartmouth College; M.A., Dartmouth College. Honorary Fellow, Clark University.

PHEBE ESTELLE SPALDING 261 W. Fifth St.

Professor of English Literature on the Phebe Estelle Spalding Foundation, 1889.

B.L., Carleton College; M.L., Carleton College; Ph.D., Boston University.

GEORGE GALE HITCHCOCK 721 College Ave.

Professor of Physics, 1892.

B.A., University of Nebraska. Graduate Student, Johns Hopkins and Cornell Universities.

GRACE ELLA BERRY 353 W. Eleventh St.

Dean of Women and Assistant Professor of Mathematics, 1909.

B.S., Mount Holyoke College; M.A., Mount Holyoke College.

¹Arranged in order of appointment to present rank. The date in each case denotes the beginning of original term of service.

MILTON ERASTUS CHURCHILL 507 Yale Ave.

Editor of College Publications, 1902.

B.A., Knox College; M.A., Knox College; Litt.D., Knox College;
B.D., Yale University. Graduate Student, University of Leipzig.

MENDAL GARBUTT FRAMPTON 927 Harvard Ave.

Professor of the English Language, 1904.

B.A., Illinois College; M.A., Illinois College; M.A., Harvard University. Graduate Student, Harvard and Chicago Universities.

CHARLES GRACCHUS NEELY 739 College Ave.

Professor of Constitutional History and Law, Emeritus, 1911.

B.L., University of Illinois.

WILLIAM ATWOOD HILTON 1293 Dartmouth Ave.

Professor of Zoology on the Willard George Halstead Foundation, 1905.

B.S., Cornell University; Ph.D., Cornell University.

ROBERT DAY WILLIAMS 260 E. Seventh St.

Professor of Experimental Psychology, 1909.

B.S., Pomona College; M.A., Yale University; Ph.D., Yale University. Graduate Student, University of California.

BERNARD CAPEN EWER 706 Indian Hill Blvd.

Professor of Psychology, 1916.

B.A., Brown University; M.A., Brown University; Ph.D., Harvard University.

RALPH HAINE LYMAN 357 W. Tenth St.

Professor of Applied Music and Instructor in Singing, Head of Department of Music, 1917.

B.A., Grinnell College. Student in voice with Karleton Hackett, William B. Olds, Grant Hadley, Arthur Middleton, Courtland Cooper, Holmes Cowper and other American masters and with Vittorino Moratti in Berlin.

MARO BEATH JONES 125 W. Eleventh St.

Professor of Romanic Languages, 1911.

B.A., Boston University; M.A., Boston University. Graduate Student, Universities of Chicago, Geneva and Barcelona. Student, Estudis Universitaris Catalans, Barcelona.

WILLIAM EVAN NICHOLL 465 W. Sixth St.

Dean of the College and Assistant Professor of Education, 1919.

B.A., Bellevue College; M.A., Columbia University. Graduate Student, Edinburgh University.

HOMER ELMER ROBBINS

487 Harrison Ave.

Professor of Classical History and Language, 1915.

B.A., University of Michigan; M.A., University of Michigan;
Ph.D., University of Michigan. Graduate Student and holder of
University and Buhl Classical Fellowships, University of Mich-
igan.

ROBERT CHARLES DENISON¹

232 W. Fifth St.

Professor of Philosophy, 1920.

B.A., Amherst College; B.D., Andover Theological Seminary;
D.D., Amherst College.

RAYMOND CUMMINGS BROOKS

489 W. Sixth St.

Professor of Religion on the Nancy M. Lyon Foundation, 1921.

B.A., Tabor College; B.D., Yale Divinity School; D.D., Tabor
College and Whitman College. Graduate Student, Oberlin College.

BRUCE McCULLY

236 College Ave.

Professor of English Literature, 1921.

B.A., Hiram College; M.A., University of Chicago; Ph.D., Harvard
University.

WILLIAM KIRK

705 Indian Hill Blvd.

Professor of Social Economics, 1922.

B.A., Johns Hopkins University; Ph.D., Johns Hopkins University.

WILLIAM POLK RUSSELL

506 E. Sixth St.

Professor of Mathematics on the Joseph W. Fiske Foundation, 1904.

B.A., Cumberland University; M.A., Cumberland University.
Graduate Student, Columbia, Harvard and Yale Universities.

GEORGE SAMUEL BURGESS¹

154 E. Tenth St.

Professor of Political Economy on the Stedman-Sumner Foundation, 1918.

B.A., University of Michigan; J.D., University of Michigan.

EUGENE WHITE NIXON

1034 Harvard Ave.

Professor of Physical Education for Men, 1916.

B.A., Monmouth College. Graduate Student, Illinois, California
and Columbia Universities.

ALPH BARTON PERRY

Harvard Exchange Professor of Philosophy.

B.A., Princeton University; M.A., Harvard University; Ph.D.,
Harvard University.

FRANK WESLEY PITMAN

116 E. Twelfth St.

Professor of History, 1924.

Ph.B., Yale University; M.A., Yale University; Ph.D., Yale Uni-
versity.

¹ Absent on leave, first semester, 1926-1927.

ROLAND RAY TILESTON 1129 Dartmouth Av

Professor of Physics, 1925.

B.A., Dartmouth College; M.A., Dartmouth College; D.Sc., Colorado College.

RUSSELL McCULLOCH STORY 127 W. Eighth S

Professor of Political Science, 1925.

B.A., Monmouth College; M.A., Harvard University; Ph.D., Harvard University.

CHARLES TABOR FITTS 137 College Av

Registrar and Assistant Professor of English, 1919.

B.A., Amherst College. Graduate Student, University of California.

WILLIAM SHEFFIELD AMENT 349 E. Eighth S

Secretary of the Faculty and Director of the Summer School, 1924.

B.A., Oberlin College; M.A., Harvard University; Graduate Student, Columbia University.

HOWARD WADSWORTH CHURCH 224 W. Seventh S

Professor of German, 1925.

B.A., Yale University; Ph.D., Yale University. Graduate Student, Universities of Berlin, Jena and Munich.

WILLIS HOLMES KERR 470 W. Seventh S

Librarian, 1925.

B.A., Bellevue College; M.A., Columbia University. Graduate Student, Edinburgh University.

JAMES HENRY FAIRCHILD 137 W. Seventh S

College Physician, 1925.

B.A., Pomona College; M.D., Rush Medical College.

PHILIP ALEXANDER MUNZ 1165 Indian Hill Blv

Professor of Botany on the Henry Kirke White Bent Foundation, 1917.

B.A., University of Denver; M.A., University of Denver; Ph.D., Cornell University. Graduate Student, University of Chicago.

AUBREY AUGUSTUS DOUGLASS 1030 Dartmouth Av

Professor of Education, 1926.

B.A., Kansas State Teachers College; M.A., Clark University; Ph.D., Clark University.

KENNETH DUNCAN 1120 Harvard Av

Professor of Economics, 1926.

B.A., Wabash College; M.A., University of Wisconsin; Ph.D., University of Michigan.

HENRY ALFRED HOLMES 334 W. Mesa Ave.
Professor of Romanic Language and Literature, 1926.

B.A., Wesleyan University, Middletown, Conn.; M.A., Wesleyan University; Ph.D., Columbia University. Graduate Student, Universities of Buenos Aires and Mexico.

ROBERT JOHN TAYLOR 1249 Harvard Ave.
Director of Extension Work in Religious Education and Acting Professor of Comparative Religion, 1923.

B.A., Hamline University; M.A., University of Southern California; D.D., Hamline University.

JOSEPH PIJOAN 1041 Columbia Ave.
Acting Professor of Hispanic Civilization and Lecturer on the History of Art, 1924.

Lic. Architecture and Letters, University of Barcelona. Student, University of Rome.

GEORGE A. SANFORD 910 Columbia Ave.
Professor of Military Science, 1926.

B.A., Kenyon College. Major, Infantry, U. S. Army.

GEORGE WILLIAM HUNTER 210 E. Mesa Ave.
Lecturer in Biological Science, 1926.

B.A., Williams College; M.A., Williams College; Ph.D., University of New York.

HANNAH TEMPEST JENKINS Claremont Inn
Associate Professor of Art and Design, Emeritus, 1905.

Graduate, Teachers College, Columbia University. Student, Philadelphia Academy of Fine Arts. Pupil of Jean Paul Laurens, Constant and St. Pierre in figure and portrait, of Henry Thompson in landscape, and of Wm. M. Chase, Robert Vonnoh and Cecilia Beaux in portrait. Paris Salonist, 1889.

WALTER ALFRED ALLEN 272 E. Second St.
Associate Professor of Musical Theory and Appreciation, and Instructor in Organ, 1912.

B.A., Beloit College; B.Mus., Yale University. Associate, American Guild of Organists.

EDWARD TAYLOR 1022 Harvard Ave.
Associate Professor of Mechanics, 1920.

C.E., University of Minnesota. Graduate Student, University of Oregon.

VERETT SAMUEL OLIVE 136 W. Seventh St.
Associate Professor of Piano, 1923.

B.Mus., Simpson College. Graduate Student, Simpson College. Pupil of Moritz Mayer-Mahr and Mme. Teresa Carreno in Berlin.

ELLIOTT CURTIS LINCOLN

365 E. Eighth S

Associate Professor of English Literature, 1924.

B.A., Colby College; M.A., State College of Washington and Harvard University.

ALFRED OSWALD WOODFORD

639 Yale A.

Associate Professor of Geology, 1915.

B.A., Pomona College; Ph.D., University of California.

BENJAMIN DAVID SCOTT

828 College Av.

Associate Professor of Public Address, 1923.

B.A., University of Southern California; S.T.B., Boston University; Ph.D., Boston University. Graduate work, Boston, Brown and Harvard Universities.

JAMES H. C. SMITH¹

1261 College A.

Associate Professor of Chemistry, 1925.

B.A., Monmouth College; M.S., University of Chicago; Ph.D., University of Chicago.

JOSEPH WADDELL CLOKEY

318 Yale A.

Associate Professor of Organ, 1926.

B.A., Miami University. Graduate, Cincinnati Conservatory of Music.

ROBERT TRESILIAN BELCHER

452 W. Sixth St.

Assistant Professor of Mathematics and Engineering Emeritus, 1907.

B.A., Queen's University. Graduate Student, Queen's College and University of California.

FRANK DAVID THOMSON

640 Indian Hill Bl.

Assistant Professor of Accounting, 1918.

B.A., Knox College; M.A., Knox College. Graduate Student, Johns Hopkins University.

ALICE EVANS²

618 Harvard A.

Assistant Professor of Physical Education for Women, 1920.

B.A., Smith College. Graduate Student, Wellesley College.

CLIFFORD NOTT HAND

1045 Yale A.

Director of Religious Interests, 1919.

B.L., Pomona College; B.D., Pacific School of Religion; M.A., University of Southern California. Graduate Student, University of California.

¹Absent on leave, first semester, 1926-1927.²Absent on leave, 1926-1927.

- ARTHUR BABCOCK 1133 Yale Ave.
Assistant Professor of Singing, 1921.
 Graduate of the New England Conservatory of Music. Member of faculty of the New England Conservatory of Music. Pupil of Sbriglia, in Paris.
- RALPH RAYMOND UNIACKE 160 W. Eleventh St.
Assistant Professor of Violin, 1923.
 Pupil of Franz Milcke.
- MARY BROOKS EYRE 246 Dartmouth Ave.
Assistant Professor of Hygiene, 1925.
 B.A., Stanford University; M.A., Stanford University.
- LEO GEORGE CLARKE 136 W. Seventh St.
Assistant Professor of Military Science and Tactics, 1923.
 First Lieutenant, Infantry, U. S. Army.
- GEORGE W. WILLIAMSON 241 E. Tenth St.
Assistant Professor of English, 1925.
 B.A., Stanford University; M. A., Harvard University.
- CHARLES FAIRMAN 316 Yale Ave.
Assistant Professor of Government, 1926.
 B.A., University of Illinois; M.A., University of Illinois; M.A., Harvard University; Ph.D., Harvard University. Student at the Institut des Hautes Etudes Internationales, University of Paris.
- MABLE CLAIRE WEST 727 Yale Ave.
Instructor in Piano, 1905.
 B.S., Pomona College. Graduate Student, Peabody Conservatory of Music, Baltimore. Pupil of Ernest Hutcheson.
- ROSA FRIEDA BISSIRI La Verne Ranch
Instructor in French, 1920.
 B.A., Kreuzlingen College, Switzerland.
- MARION JEANETTE EWING 487 W. Sixth St.
Assistant Librarian, 1912.
 B.A., Olivet College; B.S., Simmons College; M.A., Boston University.
- COLVIN HEATH 270 W. Twelfth St.
Instructor in Physical Education for Men, 1922.
 B.A., Pomona College.
- FRANCIS EDWARD BLACET 146 E. Tenth St.
Instructor in Chemistry, 1922.
 B.A., Pomona College; M.A., Pomona College.
- FRANCIS GARRITT GILCHRIST 346 Harvard Ave.
Instructor in Zoology, 1924.
 B.A., University of California.

- ROBERT LOBINGIER STREHLE 1019 Dartmouth Ave.
Instructor in Physical Education for Men, 1923.
 B.A., Pomona College.
- PAULINE ALDERMAN 618 Harvard Ave.
Instructor in Piano, 1924.
 B.A., Reed College. Graduate Student, Institute of Musical Art, New York City.
- FRANCES DILLON 130 W. Seventh St.
Instructor in Physical Education for Women, 1924.
 B.A., Wooster College. Graduate Student, Wellesley College.
- FRANCIS RAYMOND IREDELL 120 E. Eleventh St.
Instructor in Philosophy, 1925.
 B.A., Pomona College; M.A., Harvard University.
- MARY D. BIGELOW 620 Harvard Ave.
Instructor in Physical Education for Women, 1925.
 Graduate, Department of Hygiene, Wellesley College.
- MARGARET HUSSON 149 Oberlin Ave.
Instructor in Spanish, 1925.
 B.A., University of Kansas; M.A., Columbia University.
- EARL JAY MERRITT Smiley Hall
Instructor in Physical Education, and Assistant Freshman Class Adviser, 1925.
 B.A., Pomona College.
- SIMON MACCOBY¹
Instructor in History and Politics, 1925.
 B.A., Cambridge University; M.A., Cambridge University.
- GRACE TIGARD 156 W. Seventh St.
Instructor in Physical Education for Women, 1926.
 B.A., University of Oregon. Graduate Student, Wellesley College.
- PAUL LUTHER KARL GROSS 211 E. Sixth St.
Instructor in Chemistry, 1926.
 B.S., University of Chicago; M.S., University of Chicago.
- HOPE TABER FORD 430 Harrison Ave.
Instructor in Voice, 1926.
 B.A., Oberlin College.
- THOMAS MONTAGUE BEGGS Claremont Inn
Instructor in Art, 1926.
 B.F.A., Yale University. Graduate, General Art Course at Pratt Institute.

¹Absent on leave, first semester, 1926-1927.

JAMES KENDALL HALL

335 Harvard Ave.

Instructor in Economics, 1926.

B.A., University of Oregon; M.A., University of Oregon.

Associate Faculty

JAY PLOWE

1743 Stanley, Los Angeles

Instructor in Flute, 1925.

MARJORIE CARVER

127 W. Eighth St.

Instructor in Cello, 1925; Secretary, Music Department, 1926.

B.A., Pomona College. Graduate, Institute of Musical Art. Pupil of Hans Willeke in New York.

SUMMER SESSION 1926

VISITING FACULTY

KARL W. GEHRKENS

Public School Music

B.A., Oberlin College; M.A., Oberlin College.

REGINALD POLE

Drama

B.A., Cambridge University, England.

CHARLES B. MOORE

Education

B.A., Wabash College; M.A., Columbia University.

MRS. ADELIA A. SAMUELS

Education and Demonstration School

Graduate, Los Angeles State Normal School.

CARL Y. CONNOR

Literature and Drama

B.A., M.A. and Diploma in Dramatic Art, University of Toronto;
M.A., Harvard University.

CLARENCE B. ALLEN

Education

B.S., University of Utah; M. S., University of Utah.

WILEY W. MATHER

Economics and Political Science

B.A., Pomona College.

SIMON MACCOBY

History

M.A., Cambridge University, England.

FLOYD S. HAYDEN

Education

B.A., Indiana University; Ph.B., University of Chicago; M. A.
Pomona College.

CLASS OFFICERS

GENERAL—Nicholl

SENIOR—Denison and Robbins

JUNIOR—Ewer and Hilton

SOPHOMORE—Kirk and Iredell

FRESHMAN—Fitts, Berry and Merritt

COMMITTEES OF THE FACULTY

ADMINISTRATION—McCully, Hilton, Brackett, Ewer, Brooks, Denison.

ADMISSION—Fitts, Williams, Nicholl, Berry.

CLASSIFICATION—Fitts, Robbins, Iredell, Hilton, Berry, Williams.

COLLEGE LIFE—Nicholl, Berry, Lincoln, Denison, Fitts, Brooks, Eyre.

COURSES OF STUDY—McCully, Burgess, Ewer, Tileston, Church, Fitts.

FACULTY MEETINGS—Brackett, Ament, Berry, Hunter.

GRADUATE STUDY—Munz, Frampton, Douglass, Story, Holmes, Kerr.

HONORS—Woodford, Robbins, Nixon, Pitman, Smith.

LIBRARY—Burgess, Kerr, Ewing, Woodford, Church, Denison.

PHYSICAL EDUCATION AND HEALTH—Russell, Nixon, Fairchild, Bigelow, Eyre, Brackett.

PUBLICATIONS—Churchill, Bernard, Ament, Kerr, Story.

PUBLIC EVENTS AND LECTURES—Ament, Lyman, Scott, Howard, Hand, Nicholl.

RELIGIOUS INTERESTS—Brooks, Lyman, Nicholl, Nixon, Hand.

ROOMS—Burgess, Nicholl, Ament.

STUDENT AID—Hand, Nicholl, Berry, Scott.

SUMMER SCHOOL—Ament, Fitts, Holmes, Douglass, Williams.

ADMISSION

GENERAL REQUIREMENTS AND METHODS OF ADMISSION

It is the purpose of Pomona College to do a distinctly and notably high grade of work, thus preparing its graduates for special distinction in whatever later callings they may choose. To this end candidates for admission to any class must present satisfactory evidence of their fitness for college, both in character and in scholarship. Testimonials of character and a letter of honorable dismissal from the last institution attended are required.

It is further advised that applications be made as early as possible, inasmuch as the College cannot under present conditions guarantee the admission of more than one hundred and twenty-five men and one hundred women to the freshman class, the trustees having limited the total attendance to seven hundred and fifty.

The College welcomes tentative applications from prospective freshmen several years in advance and is glad to offer suggestions from time to time regarding the best preparation for admission. In this respect the good offices of the College are freely at the service of all interested inquirers. A medical examination conducted by an authorized physician, under the direction of the Department of Physical Education, is required of all students.

An applicant for admission, immediately upon receipt of notification of acceptance, is required to make a deposit of twenty-five dollars on the tuition of the first semester.

ADMISSION TO FRESHMAN STANDING

Applicants are admitted to freshman standing in any one of three ways, as follows:

First: Examination by the College.

Second: Certificate of the College Entrance Examination Board.

Examinations are given by the College Entrance Examination Board at certain times and places, which may be learned from the Registrar or from principals of secondary schools.

Third: Certificate from approved schools or colleges.

Students from approved schools or colleges are admitted without examination on presentation of a certificate signed by the principal or proper official and showing in detail the requisite completed courses. Certificate blanks obtained from the principal should be filled out and returned as early as possible after the completion of the high school year.

No application is considered which does not show fifteen units in accepted subjects, at least twelve of which are recommended. Special endorsement by the principal must accompany all papers showing non-commended units, such endorsement to include the specific recommendation of the candidate, both as to character and ability, for the undertaking of college work.

Those are matriculated to full standing who at the end of a semester's residence meet the requirements (see Matriculation); those who do not meet the requirements are not allowed to matriculate and are enrolled as in partial standing. No student in partial standing is recommended to college standing in another institution. The final acceptance of entrance units is based upon the character of the work done in class at Pomona College as well as upon the grade of the units presented.

ADMISSION TO ADVANCED STANDING

Students who have sufficient credit from other institutions are admitted to advanced standing on credentials signed by the proper officials and giving full specifications concerning the nature of the courses taken and the time spent in each, together with their rank in each subject. They are assigned hours and credits on the basis of their credentials, but such assignment is provisional until ratified by the Classification Committee. This ratification is not given until after the required semester's residence, at which time the Committee has power to act in adjusting hours or credits, or both, to the qualifications shown.

ADMISSION AS SPECIAL STUDENTS

Mature students, ordinarily only such as are at least twenty-one years of age, may be admitted as special students to courses for which, by ability and preparation, they may be fitted. This provision applies particularly to those equipped for advanced studies in special departments. The privilege of classification as special students is not open to those who seek admission to College in this way as a means of avoiding compliance with the entrance or collegiate requirements laid down for regular students. Special students are not candidates for a degree.

ADMISSION OF GRADUATE STUDENTS

Although Pomona College places its main emphasis upon undergraduate courses, it is equipped in some departments to do more advanced work, and the Committee on Admission is empowered to admit to study in these departments graduates of this and other colleges who are prepared to continue in such work.

A limited number of students, whose records show marked excellence, are accepted as candidates for the Master's degree.

On registration, graduate students indicate whether they are candidates for the Master's degree, or seeking a teacher's certificate, or are students at large.

COURSES REQUIRED FOR ADMISSION TO FRESHMAN
STANDING

In the following outline of courses a "unit" represents a course of study in one subject of high school grade involving five forty-five minute recitations per week or an equivalent for a school year. Laboratory periods should be at least twice the length of recitation periods.

Not less than one unit in any subject is normally accepted, though a half unit may be accepted when accompanied by units for courses in allied subjects.

SPECIFIC REQUIREMENTS—9 UNITS

English, 3 units	Algebra, 1 unit
History, 1 unit	Geometry, 1 unit
One foreign language, 2 units	One laboratory science, ¹ 1 unit

ADDITIONAL REQUIREMENTS—3 UNITS

Selected from the following:

English	Mathematics
History	Laboratory Science ¹
Foreign Language	

ELECTIVE—3 UNITS

It is recommended that these electives be chosen from the subjects specified above, but in view of the importance of other lines of high school work credit is allowed for full units in other courses counted for high school graduation, the acceptance of which is specifically recommended by the principal of the school.

DESCRIPTION OF SUBJECTS

Details regarding subjects accepted for entrance may be secured from the Chairman of the Committee on Admission. In general each unit represents a year's work in the subject, as ordinarily presented in the California high schools.

EXTRA ENTRANCE CREDITS

No college credit is given for subjects taken in High School prior to graduation and not needed for entrance. Such subjects, if approved by the Classification Committee, may be accepted as fulfilling in part or in whole some of the Freshman-Sophomore subject requirements but in no case does the satisfaction of these requirements in High School reduce the amount of work required for Junior standing or for graduation. Credit, varying in amount with the individual courses, is granted for graduate work in approved High Schools.

¹Heads of departments in which students wish to continue laboratory subjects begun in high school may, at their option, require the high school note-books to be submitted as evidence of ability to continue with more advanced work in the department.

REGISTRATION

All students are required to register on one of the regularly announced days of registration preceding the opening of the class work of each semester. A fee of two dollars is charged for later registration and a payment of one dollar for any change in the list of subjects chosen. This latter payment is remitted in the case of new students registering for the first time, provided the changes are made within a week of the opening day of the registration period.

Students are admitted to those courses only for which they are formally registered.

MATRICULATION

Matriculation implies the meeting of all entrance requirements and the proven ability to carry college work. To this end the standing of all new students is provisional until after they have been in residence for one semester. At that time those are matriculated who have shown themselves in accord with the spirit of the College, who have done a satisfactory quality of work during their semester of residence and whose entrance unit are acceptable.

Students are not candidates for a degree nor are they eligible for recommendation to college standing in another institution until they have been matriculated. Students are matriculated only after they have come into full standing. All students must be matriculated before attaining to Junior standing.

ELECTION OF COURSES

On or before the first Saturday in January after the Christmas recess, and the first Saturday in June, all resident students must fill out a schedule listing their choice of subjects for the following semester.

Changes from this schedule may be made upon the payment of a fee of one dollar. Failure to prepare such a schedule at the appointed time subjects the student to a fee of two dollars. Students may not elect less than twelve hours of work without the special permission of the Classification Committee.

CURRICULUM

DEGREE OF BACHELOR OF ARTS

The courses of study offered lead to the degree of Bachelor of Arts under the following hour and credit requirements.

HOURLY REQUIREMENTS

One hundred and twenty-six hours of work are required for graduation. An "hour" consists of one recitation or lecture period, or one laboratory period a week for one semester. A recitation or lecture period covers fifty-five minutes; a laboratory period covers, in general, the time of three such periods. In order to complete the course in four years one must take an average of fifteen hours of academic work per semester throughout the four years.

CREDIT REQUIREMENTS

In order to graduate a student must not only earn a certain number of hours, but also attain an average of at least C grade in those hours. To this end a certain number of credits is ascribed to each grade as a basis of determining average grade. The scale is so adjusted that the number of credits required for graduation coincides with the number of hours. Details regarding credits are published in "*The Manual of Procedure.*"

CHOICE OF SUBJECTS

In the selection of his work the student is given a large range. The only limitations are such as will insure to him, on the one hand, the breadth of view which may be gained by an introductory study of each of the great realms of knowledge; and, on the other, that concentration along some chosen line of work which will develop power of thought and an actual fund of knowledge in some particular field.

To this end there are certain subject requirements as stated below. The College would emphasize also the advisability of selecting work representing each of the following broad groups of subjects:

1. Language, Literature and Fine Arts.
2. Mathematics, Physical and Biological Sciences.
3. History, Social Sciences and Philosophy.

SUBJECT REQUIREMENTS

English Composition¹—3 hours, Freshman year.

Foreign Language²—12 hours, Freshman and Sophomore years.

Economics, History or Political Science—6 hours, Sophomore year.

Hygiene—2 hours for women, 1 hour for men, Freshman Sophomore year, unless an equivalent is offered.

Mathematics or Science—6 hours, Freshman year.

Mathematics or Science—6 hours, Sophomore year, except for those who enter with credit for three units in one of the subjects.

Physical Education—4 hours in Freshman and Sophomore years and 2 hours in Junior and Senior years for those not taking Military Training. For those taking Military Training the requirement is 1 hour per year throughout the course.

Economics, History or Political Science³—6 hours, Junior or Senior year, unless 3 recommended units of Social Science were presented for entrance.

Philosophy, Psychology or Religion³—9 hours, Sophomore, Junior or Senior year.

In addition to these requirements, there is a general requirement of 36 hours of C and D academic work, of which at least 12 must be D work.

¹Required only of those deficient in the use of English.

²See foot-notes 3 and 4, page 40.

³May be all in one department or distributed among these departments.

DEPARTMENTAL MAJOR

Students who have shown special ability in one line of work may, with the consent of the head of the department, enroll for a departmental major. This major includes at least 18 C or D hours in the department chosen, together with certain courses in allied subjects, and usually a reading knowledge of French and German. Six of these 18 hours must be D hours and at least 6 must be taken in the Senior year. The student plans his work in consultation with the head of the department concerned. Certain prerequisites, differing with the subject chosen, are indicated for each major. A final examination or thesis or both may be required.

Students who desire to become candidates for a departmental major should indicate such intention to the head of the department as early as possible.

The student who completes a departmental major receives in addition to his diploma the special commendation of the department.

HONORS COURSE

In order to encourage individual initiative opportunity is given students at the beginning of their Junior year to "read for honors." Students accepted by the Faculty as candidates for this course are relieved of approximately six hours of curricular work in the Junior year and twelve hours in the Senior year. This time freed from curricular work, together frequently with some of the vacation periods, is devoted to a wide range of reading in the student's major department and in allied fields under the guidance of a member of the department concerned. The reading may cover a greater range than any of the courses offered in the department and the student is expected to get a wider and deeper knowledge of the field than would be possible by the taking of individual courses. His grasp of the entire subject is tested by a series of examinations at the end of his Senior year. The power shown by him in these examinations may win for him

the bachelor's degree "with honors" or "with high honors" in the field concerned.

COURSES IN MUSIC AND ART

The College is equipped to offer unusual privileges in the Departments of Art and of Theoretical and Applied Music. The influence of the College is greatly enriched by the contributions made through these departments to the cultural life of the institution as a whole. In Bridges Hall the great musicians of the world are heard, all students being supplied with admission to their concerts. Great enlargement of life comes through intimate acquaintance with these arts, both in theoretical and applied forms, and the College urges all regular students to include them, at least to some degree, in their cultural courses, credit toward the B.A. degree being granted on conditions specified under the detailed description of the courses.

TEACHERS' CERTIFICATES

The College meets the requirements of the State Board of Education for the State Certificate, enabling those recommended by the College to teach in the public elementary, junior high and secondary schools of the State of California.

SUMMER SESSION

The summer session presents a series of selected courses from the college curriculum for the benefit of undergraduate and graduate students. It provides in addition an enlarged program in the Department of Education for the special benefit of teachers who wish to secure the various types of certificates for teaching in California.

In the Laguna Beach division of the summer session, the Department of Zoology conducts work under especially fortunate conditions at the Laguna Beach Marine Laboratory, Professor W. A. Hilton, Director.

A Mountain Division of the Summer Session was provided last year at Bluff Lake, a beautiful mountain meadow where 120 acres of meadow and pine land are now the property of the College. The camp, consisting of five modern cabins, was the headquarters of Dr. Munz and advanced students in botany who made a special study of the flora of the San Bernardino Mountains.

MUSIC AND DRAMA COURSE

In order to insure to the entire student body the opportunity of hearing and seeing the great artists of the day whose public appearance is usually confined to the larger cities, the College introduces each year a group of the most distinguished masters in the various departments of achievement. For the concerts and other entertainments thus afforded an annual ticket is furnished to every student.

DEGREE OF MASTER OF ARTS

Candidates for the degree of Master of Arts consult with the Chairman of the Committee on Graduate Work as to the special requirements which will be made in their cases. In addition to the presentation of a thesis, twenty-four hours of work are required for the higher degree. The twenty-four hours are divided between a major subject and a minor subject in the same or in a closely allied department. No elementary undergraduate work may be counted. One copy of the thesis, bound in accordance with specifications in the hands of the librarian, must be placed in the College library.

SCHOOL OF EDUCATION

Formally recognized by the California State Board of Education the school is designed to train teachers and school administrators with the same thoroughness that has characterized Pomona undergraduate standards. Arrangements with the nearby

schools have opened an unusual opportunity for practice teaching under the supervision of skilled teachers. The special courses in education, conducted by masters of the subjects, offer rich opportunities beyond the mere technical requirements of State certification laws.

Work in the School of Education looks to the securing of certificates in California and surrounding states as follows:

I. General Secondary or High School Certificates.

II. Junior High School Certificates.

III. Special Secondary Certificates.

Manual and Fine Arts Type.

Music Type.

Physical Education Type.

IV. General Elementary Certificates.

V. Special Elementary Certificates of the three types listed above.

At least Junior standing in Pomona College is required for enrollment in the School of Education, though the elementary required courses for special certificates may be taken in Freshman and Sophomore years.

Graduate work, looking to High School certificates, requires the Bachelor's degree from an approved college.

Graduates of approved Normal Schools and Junior Colleges are admitted to the courses leading to all certificates.

Graduates of Junior Colleges, looking to teaching in the Elementary Schools of California, can secure their elementary certificates with their B.A., and have all work count directly toward the requirements for High School certificates without loss.

LECTURE FOUNDATIONS

THE JOSEPH H. JOHNSON FOUNDATION

The Joseph H. Johnson Foundation, liberally endowed by Miss Ellen B. Scripps, provides an annual income for the purpose of furnishing to the College for a protracted stay and intimate participation in college life notable educators from other institutions. By this means such educators are annually in residence in Pomona College. The opportunity of intimate contact with distinguished instructors thus afforded to undergraduates is a unique privilege, often surpassing the privileges of the classroom of the institution from which these educators come.

THE HENRY D. PORTER FOUNDATION

The Henry D. Porter Foundation, named in honor of the late Rev. Henry D. Porter, for many years a missionary in China, secures to the institution annually, the extended stay of some prominent worker in the field of Christian Missions. The lecturer upon this foundation commonly shares in the regular classroom work related to the history, geography, politics or religion of the region in which he has been actively at work. His vivid representation of the missionary life is one of the most stimulating features in the spiritual program of the College.

OUTLINE OF WORK BY YEARS

An outline of the work which leads to graduation is here given by years. A more complete description of each course may be found under "*Courses of Instruction.*"

Each "hour" represents one recitation or laboratory period per week for one semester.

FRESHMAN YEAR

Hygiene ¹ (1 hour for men).....	2 semester hour
Physical Education ²	2 semester hour
Foreign Language ³	6 semester hour
Mathematics or Science.....	6 semester hour
Elective.....	Not less than 12 nor more than 20 semester hour

SOPHOMORE YEAR

Physical Education ²	2 semester hour
Foreign Language ⁴	6 semester hour
Mathematics or Science ⁵	6 semester hour
History, Economics or Political Science.....	6 semester hour
Elective.....	Not less than 12 nor more than 18 semester hour

JUNIOR AND SENIOR YEARS

Physical Education	1 semester hour each
Economics, History or Political Science ⁶	6 semester hour
Philosophy, Psychology or Religion ⁷	9 semester hour
Elective.....	Not less than 28 semester hours each

Should include any course requirements not already completed and enough advanced C and D courses to complete the graduation requirement of "36 hours of C and D work, of which 12 must be D."

¹Must be taken in Freshman year by the women, and in Freshman or Sophomore year by the men, unless the equivalent is offered.

²One hour required of those taking Military Training.

³By passing a proficiency test, a course in foreign literature or English may be substituted for the language requirement.

⁴Unless 3 units of one foreign language or 4 units or more of two or more foreign languages were presented for entrance, in which case only one year of foreign language is required, provided this one year is a continuation of foreign language taken in high school.

⁵Unless 3 recommended units of Mathematics or 3 of Laboratory Science were presented for entrance.

⁶Unless 3 recommended units of Social Science were presented for entrance.

⁷May be taken in Sophomore, Junior, or Senior year.

COURSES OF INSTRUCTION

DESIGNATION OF COURSES

The letter preceding the number in the designation of a course indicates in general its grade. Elementary courses, designated by A (as English A1) are given in Freshman or Sophomore year; B courses are either those which follow the A courses of earlier years or the more advanced beginning courses; C and D courses are advanced courses given to Juniors and Seniors, D courses being the more difficult. The natural sequence of courses is from A to B, B to C, and C to D, and a student may not enter a C or D course without previous work in the same line.

Courses with numbers below 100 are underclass courses; those numbered from 100 to 199 are for Juniors and Seniors; those numbered over 200 are for graduate students. Properly qualified Seniors may be enrolled in graduate courses with the consent of the instructor.

Any course may be withdrawn if the enrollment is less than five.

In departments where one-hour courses are offered, two such courses should be completed to secure the counting of hours and credits towards graduation.

When courses in different semesters have the same general number and are connected by a hyphen thus, B1a-B1b, they cover a common subject and the entire sequence should be taken. If, however, they are connected by a comma, thus, B1a, B1b, although the course extends throughout the year, independent credit is given for the work of the first semester and the first course may be followed by some allied subject instead of the next course in the sequence. Entrance to the second semester course is by permission of the instructor.

All courses are three hours each unless otherwise designated.

Roman numerals show the periods of recitations. Two courses with the same Roman numerals cannot be taken contemporaneously unless the numerals are preceded by different letters (as *M* or *W*), showing that the classes meet on different days of the group.

	7:30	9:15	10:15	11:15	1:15	2:15	3:15
<i>MWF</i>	<i>I</i>	<i>III</i>	<i>V</i>	<i>VII</i>	<i>IX</i>	<i>XI</i>	<i>XIII</i>
<i>TThS</i>	<i>II</i>	<i>IV</i>	<i>VI</i>	<i>VIII</i>	<i>X</i>	<i>XII</i>	<i>XIV</i>

Hours to be arranged—*A*.

If a letter precedes the numeral, the class meets only on that day of the group.

ART

A fee of \$18 is charged for each hour of credit except in courses B100, C111a, C111b, D219a, D219b.

A1a-A1b. Design.

BEGGS

This course for beginners includes a study of historic and national characteristics in design. The development of American art is traced through the study of early art on this continent. 2 hours. *MF, III*.

B11a-B11b. Drawing and Design.

BEGGS

The study of modern decoration applied to painting and architecture. Emphasis is placed on the ancient and medieval design, its reason for being, and its contribution to the present art. 2 hours. *WF, V*.

B100. Art Interpretation.

BEGGS

A course for students wishing to know how art applies to everyone in everyday life. A study of art in the home and community. 2 hours. First semester, *MF, VII*; second semester, *MW, XI*.

B105. History of Painting.

BEGGS

A brief study of the dominant characteristics of the historic schools of painting. Second semester. 2 hours. *MF, VII*.

C111a, C111b. History and Appreciation of Art. PIJOAN

Study of the historical development of art with especial attention to national genius and expression. 2 hours. *MW, III*.

C120a-C120b. Advanced Drawing and Design. BEGGS

A course designed for advanced students in art. The work involves practice in different mediums; charcoal, water color, and oils. Collateral; the study of modern and national art. 2 hours. *WF, IX.*

D219a-D219b. Teaching of Art. BEGGS

A general course in methods for art teachers in public schools. Principles of design, color and drawing, demonstrated by problems. 1 hour. *M, V. (Withdrawn in 1926-1927.)*

ASTRONOMY**B100a-B100b. General Astronomy. BRACKETT**

A non-mathematical course dealing with the general facts of astronomy, including regular observations at the Observatory; designed for students who have only elementary preparation in physics or chemistry and mathematics. Classroom, two hours a week; lecture and observatory, amounting to one period a week. Laboratory fee, \$3.00 per semester. *VII.*

C103. Essentials of Astronomy. BRACKETT

A special course in the essentials of the subject, designed for students who have a working knowledge of analytic geometry and calculus and of the more important principles of physical science. Classroom, two hours a week; lecture and observatory amounting to one period a week. Laboratory fee, \$3.00. First semester. *IV.*

C101a. The Sun. BRACKETT

A more detailed study of the sun and its constitution, including observations with the 40-foot horizontal telescope. Laboratory fee, \$5.00. First semester. *VIII.*

C101b. Variable Stars and Binaries. BRACKETT

Systematic observational study of certain variable and binary stars, with construction of light curves, and discussion of their classification and origin. Laboratory fee, \$5.00. Second semester. *VIII.*

C102. Cosmogony. BRACKETT

Systems of cosmogony and evolution. Kantian, Laplacian and other historical theories compared with modern hypotheses based upon present knowledge of the constitution of the stars and their motions. Prerequisite: Astronomy B100 or C103. Second semester. *IV.*

D104. Theoretical and Practical Astronomy. BRACKETT

Some phase of theoretical or practical astronomy, such as the determination of time, latitude, and longitude. Classroom,

one hour a week; lecture and observatory amounting to two periods a week. First semester. Fee, \$5.00. A. (*Withdrawn in 1926-1927.*)

D105. Celestial Mechanics.

BRACKETT

Applications of the principles of mechanics to the motions of heavenly bodies, with special problems such as the computation of orbits or the determination of the circumstances of eclipses. Second semester. A. (*Withdrawn in 1926-1927.*)

D106a-D106b. Astrophysics.

BRACKETT

A practical course in the spectrographic study of the sun and stars. Laboratory fee, \$8.00 per semester. (*Omitted in 1926-1927.*)

D230. Seminar in Astronomy.

BRACKETT

Investigation in a particular field such as binaries, variable stars, or in some phase of Astrophysics. Each semester. 1 to 4 hours. May be repeated for credit. A.

BIOLOGY

A1a-A1b. General Biology. HILTON, MUNZ and ASSISTANTS

A general course for either those who intend to take further biological work or those who wish but one year. It may be taken for credit only by students who have had no high school biology, botany or zoology. Class, MW, VII; laboratory, MTWTh, or F, 1:15-4:10. Laboratory fee, \$6.00 each.

C106. Genetics.

MUNZ

Course in modern developments in heredity and evolution and their application in plant and animal breeding. Prerequisite: One year of biological work. First semester. Class, MW, I; laboratory, M, 1:15-4:10. Laboratory fee, \$5.00. (*Omitted in 1926-1927.*)

C108. Bionomics.

HILTON

A course in the history of biological progress, including modern problems in evolution, heredity and eugenics. It is open to Juniors or Seniors who have had a year of biological work. May be taken with Zoology D131 for three hours. Second semester. 2 hours. MW, I.

D219. Teaching of Biological Sciences.

HUNTER

For those who expect to teach Botany, Zoology or Biology. Discussions of teaching methods in the biological sciences together with a consideration of material and equipment needed for such work. Second semester. 2 hours. Th, 4:15-6:10.

BOTANY

B21a-B21b. General Botany.

MUNZ

A necessary introductory course for advanced work in Botany. A general treatment of structure and life-processes of plants, giving a picture of plants as living organisms. A survey of the plant kingdom giving the steps in the evolutionary series, methods of study of various types of plants, and uses. Both laboratory and field work. Prerequisite: Biology A1 or high school biology or botany or zoology. Laboratory, one exercise a week; lecture, two hours a week. *F, I; T, IX*, laboratory, *Th, 1:15-4:10*. Laboratory fee, \$6.00 each.

C105. Bacteriology.

MUNZ

General study of important bacteria, methods of culture and study, and importance in disease and agriculture. Prerequisite: One year of biological work. Two laboratory periods and one lecture a week. Second semester. Class *W, I*; laboratory, *WF, 1:15-4:10*. Laboratory fee, \$8.00. Breakage deposit, \$5.00.

C121. Plant Histology.

MUNZ

A study of plant tissues with special reference to the anatomy of the vascular and other tissues from the evolutionary point of view. Prerequisite: Botany B21 or equivalent. First semester. Laboratory, one period; lectures, two hours a week. Class, *TTh, II*; laboratory, *F, 1:15-4:10*. Laboratory fee, \$5.00. (*Omitted in 1926-1927.*)

C123. Plant Physiology.

MUNZ

A study of nutrition and life-processes in the plant; including such topics as absorption, conduction, transpiration, photosynthesis, respiration, fermentation, etc. A foundation course for work in horticulture and agriculture. Laboratory, two periods a week; lecture, one hour a week. First semester. Class, *W, I*; laboratory, *WF, 1:15-4:10*. Laboratory fee, \$8.00. Breakage deposit, \$5.00.

C125. Comparative Morphology.

MUNZ

An advanced course in morphology and evolution of green plants. Prerequisite: Botany B21 or equivalent. First semester. Two lectures and one laboratory period a week. *TTh, II*; laboratory, *M, 1:15-4:10*. Laboratory fee, \$7.00.

C126. Taxonomy.

MUNZ

Study of local flora and of taxonomic methods. Much field work with trips to the desert, mountains, and coast for study of plants in their native conditions. Prerequisite: General Botany. Second semester. Class, *A*; laboratory, *MW, 1:15-4:10*. Laboratory fee, \$7.00. (*Omitted in 1926-1927.*)

D128. History of Botany.**MUNZ**

Second semester. 2 hours. A.

D219. Plant Pathology.

Study of diseases of citrus and other local horticultural crops, with methods of control. Laboratory and field work, two periods a week. Second semester. Prerequisite: Botany B21 or equivalent, and permission of instructor. A. Laboratory fee, \$7.00. (*Omitted in 1926-1927.*)

D131. Investigation and Research.**MUNZ**

Special work, primarily for majors in the department. Each semester. 1 to 3 hours. A. May be repeated for credit. Laboratory fee, \$2.00 for each hour of credit. Permission of instructor required for registration.

D231. Investigation and Research.**MUNZ**

Open only to graduates. Each semester. 2 to 6 hours. A. May be repeated for credit. Laboratory fee, \$2.00 for each hour of credit.

CHEMISTRY**GENERAL AND PHYSICAL****A1. Elementary Chemistry.****BLACET**

Intended for those who have had no previous training. First semester. Class, *TTh, II*; laboratory, one period, *T or Th, 1:15-4:10*. Laboratory fee, \$6.00.

A3. Inorganic Chemistry.**GROSS**

Prerequisite: Chemistry A1 or entrance chemistry. Descriptive chemistry according to the general plan of the Periodic Table, and development of the modern ideas of electrons, atoms, molecules and ions. Each semester. First semester; class, *WF, III*; laboratory, one period, *W or F, 1:15-4:10*. Second semester; class, *TTh, II*; laboratory, one period, *T or Th, 1:15-4:10*. Laboratory fee, \$6.00 each.

B5. Elementary Theoretical and Physical Chemistry.**BLACET**

To be preceded or accompanied by Chemistry A3 or equivalent. A course in the theoretical aspects of chemistry, considered on a partially mathematical basis. Second semester. Class, *WF, III*; laboratory, one period, *M or W or F, 1:15-4:10*. Laboratory fee, \$6.00.

D119a, D119b. Physical Chemistry.**GROSS**

Prerequisites: Physics, Calculus, and a C course in quantitative analysis. (After June, 1927, Chemistry B5, and Differential and Integral Calculus will be required.) Class, *TTh, VIII*; laboratory, one period, *T or F, 1:15-4:10*. Laboratory fee, \$8.00 each.

D121a, D121b. Chemistry Conference. THE STAFF
A study of chemical literature and history. One hour each. A.

D217a, D217b. Research in Physical Chemistry. GROSS
Prerequisite: Chemistry D119. 2 to 6 hours each, A. Laboratory fee, \$6.00 to \$15.00 each.

D219. The Teaching of Chemistry. _____
Second semester. 2 hours, A.

ANALYTICAL CHEMISTRY

B6. Qualitative Analysis. BLACET

Prerequisite: Chemistry A3 (or by consent of the instructor may be accompanied by Chemistry A3). Qualitative analysis of the inorganic ions. First semester. Class, *M, III*; laboratory, two periods, *TTh* or *WF*, 1:15-4:10. Laboratory fee, \$10.00.

B7. Elementary Quantitative Analysis. BLACET

To be preceded by or accompanied by Chemistry B5 and B6. Theory and practice of the principles of quantitative analysis, both gravimetric and volumetric. Each semester. First semester: class, *T, VIII*; laboratory, two periods, *MW*, or *TTh*, 1:15-4:10. Second semester: class *M, III*; laboratory, two periods, *WF*, or *TTh*, 1:15-4:10. Laboratory fee, \$10.00 each.

C108. Gravimetric and Electro-analysis. BLACET

Prerequisite: Chemistry B7. Gravimetric methods such as silicate analysis and electrodeposition; also some glass-blowing. First semester. Class, one hour, *A*; laboratory, two periods, *MW*, or *TTh*, 1:15-4:10. Laboratory fee, \$10.00. (*Withdrawn in 1926-1927.*)¹

C111. Volumetric Analysis. BLACET

Prerequisite: Chemistry B7. Volumetric methods, including iodometry and precipitometry; determination of nitrogen; electrometric titrations. Second semester. Class, one hour, *T, VIII*; laboratory, two periods, *WF*, or *TTh*, 1:15-4:10. Laboratory fee, \$10.00.

D112. Advanced Quantitative Analysis. GROSS

Prerequisite: Chemistry C108 or C111. Analysis of organic compounds for carbon, hydrogen, nitrogen, halogens and other constituents. First semester. Three laboratory periods, *A*, from which time is taken for conferences. Laboratory fee, \$12.00. (*Withdrawn in 1926-1927.*)¹

D113. Advanced Quantitative Analysis. BLACET

Prerequisite: Chemistry C108 or C111. Work on the analysis

¹Withdrawal occasioned by the sudden death of Professor James A. Lyman.

of mixtures of gases. Second semester. Three laboratory periods, A, from which time is taken for conferences. Laboratory fee, \$12.00.

ORGANIC AND BIOLOGICAL CHEMISTRY

B9. Organic Chemistry.

GROSS

To be preceded by or accompanied by Chemistry B5 and B6. An outline of the field covered by organic chemistry, with special attention to aliphatic compounds. First semester. Class, three hours, with laboratory either one or two periods. 4 or 5 hours. Class, VII; laboratory, one or two periods, 1:15-4:10, A. Laboratory fee, \$6.00 for the first period, \$4.00 for the second period.

C110. Organic Chemistry.

SMITH

Prerequisite: Chemistry B9. A continuation of Chemistry B9, with special attention to the aromatic compounds and to special topics. Second semester, 4 or 5 hours. Other details as under Chemistry B9.

D114. Organic Preparations.

SMITH

To be preceded by or accompanied by Chemistry C110. Work on the more difficult organic preparations. Second semester. Laboratory, two periods, 2 hours, A. Laboratory fee, \$10.00.

D115a, D115b. Biological Chemistry.

SMITH

Prerequisites: Biology, Physics, Calculus, and Chemistry B5, B7, and C110. (By consent of the instructor some of these prerequisites may in special cases be waived). First semester: chiefly colloid chemistry and the chemistry of food and nutrition; second semester: more general biochemical processes. Class, WF, I; laboratory, one period, T or F, 1:15-4:10. Laboratory fee, \$6.00 each. (D115a withdrawn in 1926-1927.)¹

D215a, D215b. Research in Organic Chemistry.

SMITH

Prerequisite: Chemistry D114. 2 to 6 hours each, A. Laboratory fee, \$6.00 to \$15.00 each. (D215a withdrawn in 1926-1927.)¹

D216a, D216b. Research in Biochemistry.

SMITH

Prerequisite: Chemistry D115 or equivalent. 2 to 6 hours each, A. Laboratory fee, \$6.00 to \$15.00 each. (D216a withdrawn in 1926-1927.)¹

ECONOMICS AND SOCIOLOGY

B1a-B1b. Elements of Economics.

DUNCAN

A basic course in the general principles of Economics. This

¹Withdrawal occasioned by the sudden death of Professor James A. Lyman.

course or Economics B3 required before taking other courses in Economics. Two sections. *I, III.*

331a-B31b. Accounting.

THOMSON

MF, VII and T or W 1:15-3:15.

33. Principles of Economics.

HALL

A rapid introductory survey of Economic theory. First semester, *II*; second semester, *V*.

329. Statistical Methods.

DUNCAN

Theory and method, including the simple averages—mean, median and mode; frequency distribution; graphics, deviation and correlation. Text book and problems. Second semester. *T Th, II.* Laboratory period *A*. Laboratory fee, \$2.00.

105. Money and Banking.

HALL

History and principles of Money and Banking with particular attention to recent developments in the field of banking. First semester. *VI.*

106. Public Finance.

DUNCAN

Taxation, public debts, budgets and other problems connected with the financing of governments. First semester. *VIII.*

108. Problems of Labor.

KIRK

A study of labor organizations; labor legislation; scientific management; methods of promoting industrial peace. Second semester. *V.*

109. Transportation Problems.

HALL

An historical and analytical study of transportation principles and problems, with particular reference to railway transportation in the United States. Second semester. *II.*

110. Corporation Finance.

DUNCAN

Financing of corporations, including promotion, financial structure and control, failures and reorganization, with some study of financial policy of co-operative organizations. First semester. *IV.*

111. Investments.

HALL

Must be preceded or accompanied by Economics C110. A study of the fields of speculation and investment; problems of investment and analysis. Second semester. *VIII.*

114. Elements of Marketing.

HALL

An analysis of the institutions and methods employed in the distribution of agricultural products and manufactured articles. First semester. *I.*

D115. International Commercial Policies. DUNCAN

An analysis of the policies of nations as they affect international trade, with special reference to the control of raw materials, and trade routes and the promotion of commerce. First semester. *II. (Withdrawn in 1926-1927.)*

D117. Economic Problems of the Orient. DUNCAN

A study of the social and economic problems of the Far East with special reference to conditions in China. Second semester. *VI.*

D125a-D125b. Economic and Social History of the United States. PITMAN

(See History.) (Omitted in 1926-1927.)

D204. History of Economic Thought. HALL

Second semester. *I.*

D210. Economics Seminar. BURGESS

The special topic studied varies from year to year. For 1926-1927, the study will center around the economic problems of agriculture. Second semester. 2 to 4 hours. *A.*

B21a-B21b. Elements of Sociology. KIRK

The social population; social forces; social processes; social products; sociological principles. Two sections, *IV and VI.*

C125. The Control of Poverty. KIRK

(Omitted in 1926-1927.)

D112. Social Psychology. EWE

(See Psychology D112.)

C127. Criminology. KIRK

The nature and evolution of crime; criminal traits and types the origin and evolution of punishment; crime and social progress. First semester. *V.*

D227. Advanced Studies in Social Economics. KIRK

Designed to meet the needs of students who are interested in the social sciences. First semester. *III.*

D228. Seminar in Social Economics. KIRK

Students will carry on special studies and investigations under the direction of the instructor. Open only to students who have shown in D227 capacity for doing this type of individual work. Second semester. *III.*

EDUCATION

C103. Principles and Problems of American Education.

DOUGLASS

The purpose of this course is to introduce the student to the most important problems in American Education and to acquaint him with certain approaches to the solution of these problems. First semester, *II*; second semester, *VII*.

C107. Educational Psychology.

EWER

Practical applications of psychology to education. The inherited nature of the learner; principal features of the learning process; principles of educational discipline; methods of mental measurement. First semester. *VII*.

C119. Classroom Methods and Management.

DOUGLASS

Second semester. 2 hours. *WF, I*.

C126. School Hygiene and Supervision.

BIGELOW

School Hygiene and Supervision, 1 hour. School Hygiene and Supervision, including First Aid, 2 hours. First semester. *MW, III*.

C130. Public Education in California.

NICHOLL

A course in public education in California including the organization and administration of the California school system. 2 hours. Second semester, *TTh, II*.

D104a, D104b. History of Education.

DOUGLASS

The development of educational theory and practice from the Greek period to the present. The second semester is devoted to a discussion of modern problems and principles growing out of historical changes, with special reference to the development of education in the United States. 2 hours. *TTh, VIII*.

D108. Education for Citizenship.

NICHOLL

A course presented in such a way as to lead the teacher to appreciate the social purpose of high school subjects and to make instruction in all classes contribute to the training of youth for good citizenship. 2 hours. First semester. *WF, I*.

D116. Public School Administration and Supervision.

DOUGLASS

A course in the principles and problems of public school administration and classroom management. Second semester. 2 hours. *WF, I*. (*Omitted in 1926-1927.*)

D117. The Measurement of Intelligence.

WILLIAMS

A study of the principles and methods of intelligence testing

with special emphasis upon the methods of giving the Stanford Revision of the Binet Tests. Second semester. VII.

D118. Educational Measurements. WILLIAMS

A study of the principles involved in the construction and standardization of educational tests with opportunity for practical application of tests in nearby school systems. Second semester. VII. (*Omitted in 1926-1927.*)

D125. Mental and Physical Hygiene in Education. EYRE

A study of the development of the child mentally, physically and morally. Second semester. VII.

D206. The Principal and His School. DOUGLASS

Open to graduate students only. 2 hours. Second semester. T, 4:15-6:10.

D210. Practice Teaching. DOUGLASS and NICHOLL

A course in actual practice teaching, supervised, including regular conferences with the supervisor. 2 to 4 hours. A. See also courses D219 as listed in other departments, which are teachers' courses.

D215. Principles of Secondary Education. DOUGLASS

2 hours. First semester, T, 4:15-6:10. Second semester TTh, XII.

ENGINEERING

A2a, A2b. Engineering Drawing. TAYLOR

A beginning course in mechanical drawing. Includes lettering, use of instruments, orthographic projections, intersection of solids, development of surfaces and the making and interpreting of working drawings. 1 or 2 hours. TTh, 1:15-4:10.

B3a, B3b. Engineering Drawing. TAYLOR

An advanced course. Treats of orthographic, isometric and perspective projections, shades and shadows, machine parts, draughting, office practice and standards. Prerequisite: Engineering A2 or its equivalent. 2 hours. TTh, 1:15-4:10.

B11a, B11b. Surveying. TAYLOR

Use and adjustment of surveying instruments. Methods of making, recording, and mapping surveys. Field and office work. A. (*Withdrawn in 1926-1927.*)

B15a, B15b. Descriptive Geometry. TAYLOR

A study of the science of representing on a plane the location of points, lines, planes, intersection of surfaces, etc., together

with the principles of perspective. Prerequisite: Engineering A2 or its equivalent. 2 hours. A. .(*Withdrawn in 1926-1927.*)

C112a, C112b. Engineering Design. TAYLOR

A laboratory course in design of cams, gears, machine parts and simple trusses. Two 3-hour periods a week. 2 hours' credit a semester. *TTh, 1:15-4:10.*

D113a, D113b. Analytic Mechanics. TAYLOR

A study of force and motion with special reference to engineering problems and structures. Prerequisite: A knowledge of Calculus. *VII.*

D117. Hydraulics. TAYLOR

Flow of water, oils and other fluids in pipes, ditches and streams. Measurement of flow by orifices, weirs, etc. Design of dams, flumes and pipe lines. Two recitations and one laboratory period a week. Must be accompanied or preceded by Engineering D113. First semester. A.

ENGLISH COMPOSITION AND LANGUAGE

COMPOSITION

A11a-A11b. English: An Introductory Course.

FRAMPTON, McCULLY, SCOTT

A general course including work in literature, composition and public speaking. 4 hours. *MWF, III and S, VIII.*

A21. Composition. WILLIAMSON

An elementary course for those who are deficient in English. May be required of students of any class. Second semester. *III.*

A22a-A22b. Freshman Composition.

FRAMPTON, LINCOLN, FITTS, WILLIAMSON

Elective for freshmen. Four sections. General course first semester; two sections study creative writing and two exposition and argumentation the second semester. *II and VI.*

B23a, B23b. Sophomore Composition. FRAMPTON

A course for those planning to take C and D work in composition. The first semester will be given to expository forms of composition, such as criticism and the familiar essay; the second, to description and narration. *IV.*

B124. Composition. WILLIAMSON

Open to upper classmen and to sophomores who have had composition in their freshman year. A course for those who desire drill in expression and in the organization of material. First semester. *III.*

C107. Contemporary Poetry.**LINCOLN**

A course in the chief English and American poetry of the last twenty-five years with particular attention to the newer movements in this field as they have affected either form or content. One period each week will be devoted to the writing of verse. Prerequisite: Six hours of collegiate literature. First semester. VI.

C125. Essay Writing.**WILLIAMSON**

Practice in supervised writing of essays of various types. Especial attention to the Informal Essay. Second semester. V.

C128. Short-Story Writing.**FRAMPTON**

Practice in supervised writing of short-stories. Study of American short-stories. First semester. V.

D127. Literary Criticism.**FRAMPTON**

Study of the bases of literary criticism and of outstanding critics, particularly of the last century and a half. First semester. T, X and XII, and F, IX.

D129. Writing of Plays.**WILLIAMSON**

Especial attention given to the development of local California material. First semester, V. (*Omitted in 1926-1927.*)

D230. Composition Seminar.**FRAMPTON**

Supervised practice in all forms of creative writing. Study of matters and fields of literary interest. Second semester. T, X and XII, and F, IX.

LANGUAGE**C141. Anglo-Saxon.****FRAMPTON**

Required of students whose major is English Language. First semester. III. (*Withdrawn in 1926-1927.*)

C144. Chaucer.

A study of Chaucer as the outstanding narrative and dramatic poet of the transition from the medieval to the modern world. Prerequisite: Six hours of collegiate literature. Second semester. (*Omitted in 1926-1927.*)

D142. Beowulf.**FRAMPTON**

Required of those whose major is English Language. Prerequisite: English C141. Second semester. III (*Withdrawn in 1926-1927.*)

D219. The Teaching of English.**FITTS**

Required of those seeking teacher's certification in English. First semester. 2 hours. A.

ENGLISH LITERATURE

A1a-A1b. Introduction to Literature. MCCULLY

A course in the fundamental principles of literary criticism and interpretation together with reading and study of specimens of the more important literary types.

In case of Freshmen and Sophomores this course is prerequisite for all B courses in the department. V.

A11a-A11b. English: An Introductory Course.

FRAMPTON, MCCULLY, SCOTT

A general course including work in literature, composition and public speaking. 4 hours. *MWF, III and S, VIII.*

33. Development of English Literature. SPALDING

A historical survey of English literature from its beginnings to the age of Shakespeare.

Prerequisite: English A1 in case of Freshmen and Sophomores. First semester. VII.

34. Shakespeare. LINCOLN

A general course, including some consideration of Shakespeare's life and the conditions under which he lived and wrote, the chief stress falling, however, on a study of the greater plays with a view to enabling the student to read Shakespeare with sympathetic appreciation.

Prerequisite: English A1 in case of Freshmen and Sophomores. Second semester. VII.

35a, B5b. Nineteenth Century Literature. LINCOLN

Wide reading in the literature of the period with lectures on its significance as an expression and interpretation of general English life.

Prerequisite: English A1 in case of Freshmen and Sophomores. III.

C101a, C101b. Literature of the Renaissance. MCCULLY

Studies in medieval literature, both English and continental, serve as a groundwork for the course. Thereafter the coming of the Renaissance, the humanists and the New Learning, the Tudor translations, the making of the English Bible, and the work of such men as Sidney, Spenser, Shakespeare and Bacon become main topics.

Prerequisite: Six hours of collegiate literature. Art C111 and History B7 should be taken either before or together with this course. (*Omitted in 1926-1927.*)

C103a, C103b. Literature of the Eighteenth Century.

MCCULLY

The neo-classical literature of Dryden, Pope and their con-

temporaries; the periodical essayists; sentimentalism, realism and romanticism; eighteenth century drama; the beginnings of the English novel; the spread of the romantic movement in England and on the Continent. Permission of the instructor must be secured before registration for this course. *II.*

C105a, C105b. American Literature.

LINCOLN

The literature of the United States, with particular attention to the expression of our national characteristics and sentiments. *IV.*

C106. Browning.

SPALDING

A survey of Browning's work as a whole with a view to an understanding of his philosophy and an appreciation of his art. Second semester. *VII.*

C107. Contemporary Poetry.

LINCOLN

A course in the chief English and American poetry of the last twenty-five years with particular attention to the newer movements in this field as they have affected either form or content. One period each week will be devoted to the writing of verse. Prerequisite: Six hours of collegiate literature. First semester. *VI.*

C110. Milton and His Period.

SPALDING

The literature of Puritan and Cavalier, the work of Milton being studied at length in the light of the life and culture of the poet. Second semester. (*Omitted in 1926-1927.*)

C144. Chaucer.

MCCULLY

A study of Chaucer as the outstanding narrative and dramatic poet of the transition from the medieval to the modern world. Prerequisite: Six hours of collegiate literature. Second semester. (*Omitted in 1926-1927.*)

D111a, D111b. History of English Drama to 1642.

FRAMPTON

Lectures and readings tracing the historical development of English drama from its beginning to its flowering in the work of Shakespeare and his contemporaries; thence through its decline to the closing of the theatres. *VII.* (*Withdrawn in 1926-1927.*)

D113a, D113b. Shakespeare.

MCCULLY

A study of Shakespeare's complete works. Registration limited to men. *I.*

D115a, D115b. The Novel.

WILLIAMSON

Lectures on the history of English prose fiction, with a study of selected nineteenth century novels, followed by a survey

of the more recent work in prose fiction, American, English, and continental European. *IV.*

D213. Shakespeare: The English History Plays. SPALDING

A study of Shakespeare's growth in dramatic power and skill throughout his formative period, the chronicle history plays receiving chief attention. First semester. *V. (Omitted in 1926-1927.)*

D215a, D215b. Seminar in Literature. SPALDING

A correlated review of the development of English literature. *V.*

D218. The Great Victorians. MCCULLY

The "major prophets," Carlyle, Ruskin and Arnold, receive chief emphasis. The work of other eminent Victorians is investigated and discussed in relation to these central figures and to the general social life of the period. Prerequisite: English C103 or an equivalent. Second semester. *VI.*

FRENCH

A1a-A1b. Elementary. JONES, BISSIRI

Stress laid on accurate pronunciation, essentials of grammar, translation of French prose; dictation, conversation and easy composition. Four sections. *II, III.*

B22a-B22b. Romance Literature in English. HOLMES

(See Spanish B22.) (*Withdrawn in 1926-1927.*)

B3a-B3b. French Novel of the Nineteenth Century.

BISSIRI, HUSSON, HOLMES

A study of the prose writers of the nineteenth century. Selections from representative authors; Chateaubriand, Hugo, Balzac, Loti, Sand, Coppee, and others. Composition, summaries and reports in French. Four sections. *I, IV, VI.*

B4a-B4b. Grammatical Analysis. BISSIRI

An intensive study of grammar with emphasis on idiomatic French, original compositions, conversation, reading of contemporary French. Class conducted largely in French. Prerequisite: French A1 or equivalent. 2 hours. *TTh, VIII.*

C105. Classic Drama. JONES and BISSIRI

A study of typical plays by Corneille, Racine and Moliere, with collateral reports in French. Lectures in French. Prerequisite: French B3 or equivalent. Two sections. First semester. *V.*

C106. Seventeenth Century Prose. JONES and BISSIRI

Study of Boileau, La Fontaine, La Bruyere, Descartes, Pascal,

Bossuet, Fenelon, Mmes. de Sevigne, La Fayette and Maitenon; lectures and collateral study in French upon the age of Louis XIV. This and all following courses conducted in French. Second semester. V.

C107a-C107b. French Conversation.

BISSIR

Practical course in French conversation based on modern colloquial usages. Prerequisite: French B3 and B4 or equivalent. 1 hour. T, X.

D109. Literature of the Eighteenth Century.

HOLMES

A critical study of the French philosophers of the eighteenth century, with especial attention to Montesquieu, Voltaire and J. J. Rousseau. Collateral readings and reports by members of the class. Prerequisite: French C105 and C106. First semester. II.

D110. Romantic School.

HOLMES

An intensive study of the French poets of the early nineteenth century. Readings from Hugo, Lamartine, A. de Musset, and others. Collateral readings and lectures upon the period. Prerequisite: French C105 and C106. Second semester. II.

D111. Contemporary Literature.

JONES

Prerequisite: French C105 and C106. First semester. IV. (*Omitted in 1926-1927.*)

D112. Ronsard to Malherbe.

JONES

A study of the Pleiade. Essays of Montaigne. Lectures upon the literary history of the period. Prerequisite: French C105 and C106. Second semester. IV. (*Omitted in 1926-1927.*)

D219. The Teaching of French.

JONES

Discussion of textbooks and methods. Technical: French phonetics. First semester. 2 hours. A.

GEOLOGY

B1. Physical Geology, Dynamic and Structural.

WOODFORD

Prerequisite: High school chemistry or equivalent. Class, two hours a week; laboratory or field work, one period a week. First semester. Class, WF, I; laboratory, T, W, Th, F, 1:15-4:10. Laboratory fee, \$3.00.

B2. Historical Geology.

WOODFORD

Prerequisite: Geology B1. Second semester. Class, WF, I; laboratory or field work, T, W, Th, F, 1:15-4:10. Laboratory fee, \$3.00.

B3. Determinative Mineralogy.

WOODFORD

Prerequisite: High school chemistry or equivalent. Each

semester. Two laboratory periods. 2 hours. A. Laboratory fee, \$4.00.

105. Crystallography. WOODFORD

Must be preceded or accompanied by Geology B3, unless taken upon the written recommendation of the Department of Chemistry. First semester. 2 hours. *WF, V.*

106. General Mineralogy. WOODFORD

Physical-chemical relations and paragenesis of minerals; blow-pipe analysis. Prerequisite: Geology B3 and C105. Second semester. Class, *WF, V*; laboratory, *T, 1:15-4:10*. Laboratory fee, \$4.00.

107a, C107b. Invertebrate Paleontology. WOODFORD

Prerequisite: Geology B2. Both semesters. One class and two laboratory periods. A. Laboratory fee, \$6.00 each. Given alternate years. (*Omitted in 1926-1927.*)

110. Petrology. WOODFORD

The study of rocks without the microscope. Prerequisite: Geology B1, B3 and C105. Second semester. One class and two laboratory periods. A. Laboratory fee, \$4.00.

104. Field Geology. WOODFORD

Prerequisite: Geology B2, C110. A summer course of three or six weeks. 3 or 6 hours. A.

111. Optical Mineralogy. WOODFORD

Prerequisite: Geology C105. First semester. Two class and one laboratory periods. A. Laboratory fee, \$5.00. Given alternate years.

112. Petrography. WOODFORD

Prerequisite: Geology D111. Second semester. One class and two laboratory periods. A. Laboratory fee, \$8.00. Given alternate years.

230, D231. Geological Investigation and Research.

WOODFORD

3 hours. A. Laboratory fee, \$4.00 each.

GERMAN

a-A1b. Elementary. CHURCH

The essentials of grammar. Translation from and into German. Constant ear training, and as much practice in speaking as time permits. Etymology. Comment on German life and literature. Three sections. *I, II, V.*

a-B3b. Advanced. CHURCH

More advanced and with the addition of a study of different

works of German literature. In the second semester, read assigned on the lines of the student's major work in science or literature. Prerequisite: German A1 or equivalent.

B12a-B12b. German Literature and Life. CHU

A survey, in English translation, of German life and thought. Contemporary art and history. Works of general interest such as the Nibelungenlied, the lyrics of the troubadours, the writings of Martin Luther and some of the best modern German literature since the Reformation. *VIII.*

C113a-C113b. German Literature and Life. CHU

The same course as the above, with the exception that the required reading will be done in German instead of in English translation. *VIII.*

C109a-C109b. German Literature of the Nineteenth Century. CHU

Rapid reading of typical works from the time of Goethe to the present. Contact established with other European literary movements of the period. Discussion and papers. Prerequisite: German B3 or equivalent. *I. (Withdrawn in 1927.)*

One of the following courses, to be elected only with the consent of the instructor, may be offered if there is sufficient demand.

D115. Goethe and His Times. CHU

Either semester. *A.*

D217. Middle High German. CHU

Either semester. *A.*

GREEK

B1a-B1b. Elementary. ROE

First lessons; relation to modern Greek and to English scientific vocabulary; selected short passages from Greek literature; Book I of Homer's Iliad. *VIII.*

B3. Herodotus and Plato. ROE

Selections from the history of Herodotus; brief treatment of Greek history and dialects; Plato, Apology and Crito; the Socrates and his contribution to philosophy. First semester. *(Omitted in 1926-1927.)*

B4. Greek Epic Poetry and Tragedy. ROE

Selections from Homer's Odyssey; history of the epic; Oedipus, Antigone or Euripides, Alcestis; the Greek theatre; stage antiquities. *(Omitted in 1926-1927.)*

3. Greek Life and Literature.

ROBBINS

Open to students who have no knowledge of the Greek language, and designed to give an appreciation of the masterpieces of Greek literature through translations. First semester. (*Omitted in 1926-1927.*)

17. History of Greece.

ROBBINS

Lectures, assigned readings and quizzes on the history, civilization and achievement of the Greeks from prehistoric times to the Roman Conquest. First semester. V.

HISTORY

a-A1b. The Development of Western Civilization. PITMAN

The evolution of civilization in Europe from antiquity to the present, and its spread throughout the world. Attention is paid to the political, religious, intellectual, and economic forces of change. The aim is to lay a foundation for the understanding of contemporary problems. Normally a prerequisite for advanced courses in history. I.

-B5b. American History.

FAIRMAN

A general survey from the early explorations to the present, tracing the development of the American people in its economic, social, and governmental aspects. First semester, the administration of Jackson; second semester, the Jacksonian period to the present. I.

-B7b. English History.

PITMAN

A survey of the development of the main features of civilization in England and the British Empire. Emphasis is laid upon the evolution of religious, intellectual, and economic forms as well as the growth of political institutions. Thus the course is largely a study of the cultural heritage of America. First semester, Great Britain to 1783; second semester, Great Britain and the Empire since 1783. VIII.

7. European Governments.

MACCOBY

(See Political Science.)

8. International Politics.

MACCOBY

(See Political Science.)

9a-C109b. Westward Expansion of American Society.

A study of frontier society in its geographic, economic, social and governmental aspects, and of the influence of frontier conditions and institutions on the character of American society and politics. The course includes a study of the population and institutions of the territories and dependencies of the United States. VI. (*Omitted in 1926-1927.*)

C113a-C113b. Modern European History.

PITMAN and MACCOB

Following an introductory survey of the forces operating in the society of the eighteenth century a study is made of the French Revolution and the Napoleonic period. First semester to 1815. The development of European nations is traced in its political and cultural aspects with emphasis upon international relations with reference to present-day conditions. Second semester, 1815 to the present. VII.

C117, C118. History of the Greeks and Romans. ROBBIN

(See Departments of Greek and Latin for description.) V

D119. American Diplomatic History.

FAIRMAN

An examination of American diplomatic practice in such matters as neutrality and freedom of the seas, fisheries, commercial relations, the Monroe Doctrine, recognition of new governments, expatriation and protection of citizens abroad, immigration, disarmament, arbitration and international association. First semester. II.

D219. Teaching of History and the Social Sciences. PITMA

Reports and discussions on such subjects as centers of historical investigation, schools of interpretation, mutual effect of teaching and research, societies, foundations, reviews, curricula, methods of instruction, apparatus, and the relation of history to other social studies and the arts. Second semester. 2 hours. A.

D125a-D125b. Economic and Social History of the United States.

PITMA

A study of agrarian, commercial, and industrial conditions which helped determine the character and importance of the major political and social problems of American colonial and national history. 2 hours. MF, V. (*Omitted in 1926-1927.*)

D230. Seminar in History.

PITMA

An investigation of the political, economic, and social conditions that produced the American Revolution, of its effects on America to 1789, and of its broader influence in economics and politics. Both semesters. 2 hours. A.

D131a-D131b. Hispanic American History.

PIJOA

Special fields selected for study and investigation, such as the period of the great discoveries, the Spanish settlement in California, Spanish institutions in America. 2 hours. TTh, V.

For classes in American Government and Constitutional History, see the Department of Political Science and Law; for financial and economic history, see the Department of Economics; f

the history of education, *see* Department of Education; for philosophy of the state and history of philosophy, *see* Department of Philosophy, for church history, *see* Department of Religion.

ITALIAN

B131a-B131b. Elementary. JONES

Essentials of grammar. Special emphasis upon pronunciation. Composition and dictation. *XI.*

C133. I Poeti dei secoli XVIII e XIX. JONES

A study of the foremost Italian poets and dramatists of the last two centuries. This course, and all to follow, conducted in Italian. First semester. *A. (Omitted in 1926-1927.)*

C135. Boccaccio and Petrarch. JONES

Selections from the Decamerone and other works of Boccaccio. Study of the Canzoniere of Petrarch. First semester. *A. (Omitted in 1926-1927.)*

D134. Il Cinquecento. JONES

A study of the Italian epics of the sixteenth century. Readings from Boiardo, Ariosto, Tasso and others. Collateral readings and reports in Italian. Prerequisite: C133 or C135. Second semester. *A. (Omitted in 1926-1927.)*

D136. Dante. JONES

Intensive study of the Inferno, with selections from the Purgatorio and Paradiso. Collateral readings with reports in Italian. Prerequisite: C133 or C135. Second semester. *A. (Omitted in 1926-1927.)*

LATIN

A1a-A1b. Elementary. ROBBINS

First lessons in Latin with oral and written work; translation of stories from mythology and of easy Latin plays; Book II and selections from several other books of Caesar's Gallic War. *(Omitted in 1926-1927.)*

A2a-A2b. Cicero, Ovid and Vergil. ROBBINS

Cicero, Orations I and IV against Catiline and the Oration for Archias; selected passages from Ovid's Metamorphoses and Vergil's Aeneid. *VII.*

B3a, B3b. Cicero, Pliny and Horace. ROBBINS

Cicero, De Senectute; Pliny, Selected Letters; study of the life and times of the late Roman republic and early empire. Horace, Odes and Epodes; philosophy, history and mythology

as reflected in the poems of Horace; study of the metrics of Horace and the influence of the Greek lyric poets. VI.

B4a-B4b. Composition. ROBBINS

Review of Latin grammar and writing of Latin sentences to fit the needs of the class. Required of students making Latin their major. One hour. A.

B14. Roman Life and Literature. ROBBINS

The civilization of the ancient Romans and their contribution to modern life. V. (*Omitted in 1926-1927.*)

C106, C107. Roman Comedy and Elegy. ROBBINS

Selected plays from Plautus and Terence. Origin and development of the elegy with emphasis upon the poems of Catullus, Tibullus, Propertius and Ovid. IV. (*Withdrawn in 1926-1927.*)

C108a-C108b. Composition, Connected Narrative. ROBBINS

Translation of connected discourse into Latin; lectures on Latin word-formation. Required of students making Latin their major. Prerequisite: Latin B4. 1 hour. A. (*Withdrawn in 1926-1927.*)

C118. History of Rome. ROBBINS

Lectures, assigned readings and quizzes on the history, organization and achievement of the Romans from the foundation of the Eternal City to the reign of Justinian. Second semester. V.

D109, D110. Roman Philosophy and Satire. ROBBINS

Selections from the philosophical works of Cicero, Lucretius and Seneca; contribution of Rome to the history of philosophy. Selected poems of Martial, Persius and Juvenal; history of the origin and development of satire. (*Omitted in 1926-1927.*)

D219. The Teaching of Latin. ROBBINS

Designed for those who plan to teach Latin in the secondary schools. First semester. 2 hours. A.

D220. Latin Seminar. ROBBINS

Seminar in Roman Literature with emphasis upon the Roman historians, Livy and Tacitus. 2 to 4 hours. A.

MATHEMATICS

The courses in Mathematics designated A2, A4, A5 and B3 are intended primarily for Freshmen. Students who enter with credit for three and a half or four units of commended work in Mathematics, including solid geometry and trigonometry may take Mathematics B13. Mathematics A5 is intended primarily for those who do not expect to take further work

in the subject. Others should take Mathematics A4 and A2 or B3, according to their preparation and need.

A2. Plane Trigonometry. TAYLOR and RUSSELL

Elements of plane trigonometry with practical problems. Each semester. First semester, V: second semester, III.

A4. Algebra. RUSSELL

A semester course in second year algebra, designed for those who have studied algebra only one year. First semester. III.

A5a-A5b. Elementary Analysis. BERRY

A theoretical and historical study of some of the more interesting principles of mathematical analysis. III.

A8. Mathematical Introduction to Engineering. TAYLOR

Prerequisite: Plane trigonometry. First semester. II. (*Withdrawn in 1926-1927.*)

B3a, B3b. Algebra. RUSSELL

Fundamental operations and quadratic equations; complex numbers; ratio, proportion and variation; binomial theorem; elementary functions; series; logarithms; theory of equations. Prerequisite: Two years of high school algebra. V.

B13a, B13b. Analytical Geometry and Calculus. RUSSELL

An elementary course in the principles of coordinate geometry and introduction to differential calculus. Designed to follow Mathematics A2, A5 or B3. VI.

B17. Elements of Analytic Geometry and Calculus. TAYLOR

Primarily for students of Engineering. To follow Mathematics A8. Second semester. V.

C108a-C108b. Analytic Geometry and Calculus. TAYLOR

A continuation of the analytic geometry and calculus of Mathematics B17. VI.

C115a-C115b. Differential and Integral Calculus. RUSSELL

A continuation of Mathematics B13a, B13b. IV.

D119. Theory of Equations. RUSSELL

Theory and solution of higher algebraic equations, employing determinants, elimination and linear transformations. First semester. II.

D120. Differential Equations. RUSSELL

A general course in the theory and solution of differential equations. Second semester. II.

D121a-D121b. Higher Analysis.**BRACKETT**

An introduction to the realm of higher mathematics, including the intensive study of some particular subject, such as the theory of numbers or of real functions, designed to develop independence and power in mathematical reasoning. *II*

D227a-D227b. Projective Geometry.**BRACKETT**

A deductive study of the principles of projective geometry with special attention to the foundations of geometry. *A*
(Omitted in 1926-1927.)

D219. The Teaching of Mathematics.**RUSSELL**

Lectures, readings, and discussions on what should be regarded as essential in the teaching of mathematics. First semester. 2 hours. *WF, VII.* (Withdrawn in 1926-1927.)

MILITARY SCIENCE

This institution maintains an Infantry unit, senior division of the Reserve Officers' Training Corps. The training has been placed on a voluntary basis instead of being a prerequisite for graduation as in former years. The basic course consists of two years, Freshman and Sophomore, and is open to all physically fit Americans over fourteen years of age. The advanced course, for Junior and Senior years, is open to selected students, who have completed the basic course and who sign an agreement to attend an advanced camp for not to exceed six weeks during one summer vacation. Students who have satisfactorily completed two full academic years in a Junior R. O. T. C. unit, will normally be admitted to the second year of the basic course. Students who have completed three full years in a Junior R. O. T. C. unit may be admitted to the advanced course in their freshman year.

A1a-A1b. Basic Course.**SANFORD and CLARK**

Elementary subjects of military training; command and leadership; rifle marksmanship. $1\frac{1}{2}$ hours. Class *T* or *T VIII*, or *F, VII*; field work, *M. 1:15-3:10.*

B3a-B3b. Basic Course.**SANFORD and CLARK**

Scouting and patrolling; command and leadership; automatic rifle; musketry; interior guard duty. $1\frac{1}{2}$ hours. Class *T VIII* or *F, IX*; field work, *M. 1:15-3:10.*

C105a-C105b. Advanced Course.**SANFORD and CLARK**

Military sketching; military field engineering; Infantry weapons (machine gun); command and leadership; combat principles. Junior year. $3\frac{1}{2}$ hours. *I* or *II* and *M. 1:15-3:10.*

D107a-D107b. Advanced Course.**SANFORD and CLARK**

Infantry weapons (37mm gun, 3-inch trench mortar); administrative

istration; military law; military history; combat principles; command and leadership; rules of land warfare. Senior year. 3½ hours. *IV* and *M. 1:15-3:10*.

MUSIC

THEORY AND APPRECIATION

Courses in the Theory and Appreciation of music are granted credit on the same basis as other college studies and proficient students may major in either theoretical or applied music under conditions arranged in consultation with the head of the department.

A1a-A1b. Elementary Harmony. ALLEN and ALDERMAN

A study of intervals, scales, tonal magnetism, primary triads, dominant seventh and ninth chords, and all non-chordal tones. Harmonization of melodies. A2 is recommended. Prerequisite: Elementary knowledge of the pianoforte. Two sections. *I, II*.

A2a, A2b. Ear-Training and Sight-Singing. ALDERMAN

A study of scale tones and their relationships together with a development of rhythmic appreciation. Melodic and harmonic dictation with a view to discriminative listening and proficiency in sight-reading. Recommended for all Harmony students. Two sections. 3 hours' recitation. 2 hours' credit. *V* and *IX*. The section at *IX* is open only to students who have had one year of harmony.

3a-B3b. History and Appreciation. ALLEN

A course tracing the development of music from ancient times to the present; biographical sketches of famous composers with a description of their principal works. Recitals, to aid in appreciation, are given frequently. Victrola and Duo Art. 2 hours. *MF, XI*.

5a-B5b. Advanced Harmony. ALLEN

Secondary harmonies. Modulation and chromatically altered chords. Extensive keyboard drill. Creative work is encouraged from the beginning. Harmonization conducted on a melodic basis. Prerequisite: Music A1 or equivalent. *VII*.

107a-C107b. Counterpoint. ALLEN

A study of Simple Counterpoint in the five species with an aim to develop technique in voice leading. Two and three part inventions. Creative work in the simple forms of Free Composition is undertaken during the course. Prerequisite: Music B5. *VI*.

113a-C113b. Orchestration. CLOKEY

A study of orchestral instruments, their capabilities and limi-

tations, and their use singly, and in groups; arranging of compositions for Symphony. "American" and "Theatre" Orchestra; the study of scores; the theory and practice of conducting. This course is especially designed to meet the needs of a student desiring the State Certificate. Prerequisite: Music B5. *XIII.*

D108a, D108b. Free Composition.

ALLEN

Advanced original work in the shorter free styles followed by the Sonata form. Prerequisite: Music C107. A.

D219. Public School Music Methods.

Selection, presentation and interpretation of the song. Methods of developing sight-singing and other technical problems. A brief study of child psychology. Teaching plans with a bibliography of material. Class work includes actual teaching practice. First semester. 2 hours. A. (*Withdrawn in 1926 1927.*)

APPLIED MUSIC

The student in applied music will be enrolled for credit toward the Bachelor of Arts degree only upon the written recommendation of the Chairman of the Examining Committee and the Head of the Department, and upon the subsequent favorable action of the Classification Committee. This recommendation is based upon the degree of ability and advancement shown in Proficiency Tests. In addition the work in applied music must be accompanied or preceded by Harmony A1. A second year or more of credit is possible when the applied course is accompanied or preceded by Harmony B5. A minimum of two half-hour lessons weekly is required for which two hours' credit is allowed. No college credit is given for work below "B" (Sophomore) grade. Not more than 12 hours' credit in applied music may be counted toward the Bachelor of Arts degree unless the student is able to present a total of 8 hours of "D" (Senior) grade work in any subject. In this case 16 hours' credit may be allowed. Proficiency tests are required only of students desiring credit toward the Bachelor of Arts degree. For further details see Music Bulletin.

Voice

LYMAN, BABCOCK, FOR

Organ

CLOKE

Piano

OLIVE, WEST, ALDERMAN

Violin and Ensemble

UNIACK

Violoncello

CARVER

Flute

PLOW

PHILOSOPHY

B21. Introduction to Logic. IREDELL

A study of the elements of deductive and inductive reasoning with special emphasis upon the problems of definition, the nature and use of scientific hypotheses, probability, and deductive and inductive fallacies. Each semester. First semester, IV. Second semester, V.

B23. Ethics. DENISON

A study of the field of morality, the problem of human freedom, the standard of judgment of right and wrong and the social and individual judgments on moral questions. An examination of conscience and reason. Second semester. V.

C125a, C125b. History of Philosophy. IREDELL

A study of the main currents of thought from the earliest Greek thinkers through modern philosophic thought. The course is designed to be a general and cultural introduction to philosophy through history. Prerequisite: B course in Philosophy or Psychology. VII.

C127. Introduction to Philosophy. IREDELL

A consideration of the problems of philosophic thought as these come out in Astronomy, Geology, Physics, Biology and Psychology, together with an examination of the method and principles of science. Prerequisite: B course in Philosophy or Psychology. First semester. V.

C133. Philosophy of Evolution. DENISON

A study of the background of Darwin's idea of evolution with examination of later theories in their scientific and metaphysical aspects. Some adequate background in science or philosophy will be required. (*Omitted in 1926-1927.*)

D118. Metaphysics. IREDELL

A study of such fundamental problems as monism and pluralism, the nature of the self, and teleology. Prerequisite: Philosophy C125 or C127. First semester. VI.

D120. Philosophy of Art. DENISON

A philosophical examination of the nature of beauty with consideration (1) of its ground in reality, (2) of its value in the process of human evolution, and (3) of man's attempts to appropriate and express it. Second semester. III.

D129. Philosophy of Religion. IREDELL

A philosophical examination of the fundamentals of religion, such as the nature of God, the problem of evil and the destiny of man. Prerequisite: Philosophy C125 or C127. Second semester. VI.

D132. Philosophy of the State.**DENISON**

A philosophical study of the nature and function of the state and its basis in human nature, together with an examination of the philosophies of democracy, of the economic order and of internationalism. Some background in Social Psychology, Sociology, Economics or Political Science required. Second semester. *IV.*

In 1926-1927 Professor R. B. Perry, Harvard Exchange Professor, will lecture for a month on the Philosophy of Democracy.

D220. Philosophy since 1900.**DENISON**

A study of contemporary philosophic thought through some of the main modern thinkers with special reference to the dominant ideas of the civilization of today. (*Omitted in 1926-1927.*)

D230. Philosophy Seminar.**DENISON and IREDELL**

Admittance by consent of the instructors. Second semester. *A.*

PHYSICAL EDUCATION**MEN AND WOMEN****C127a-C127b. Playground Theory.****HEATH**

$\frac{1}{2}$ hour. *W, IX.*

C129a-C129b. Playground Dancing.**TIGARD**

Open only to those taking Physical Education C127. $\frac{1}{2}$ hour. *W, XI.*

D130. Kinesiology.**EVANS**

First semester. (*Omitted in 1926-1927.*)

D131. Study and Treatment of Growth Divergencies.**BIGELOW**

Prerequisite: Physical Education D130. Second semester. Lecture, 2 hours; laboratory, 1 hour. (*Omitted in 1926-1927.*)

D133. Teaching of Hygiene.**BIGELOW**

Second semester. 2 hours. *MW, III.*

MEN

A physical examination is given to all entering students, together with a series of physical efficiency tests. Upon the basis of these tests and examinations each student is assigned to courses in sports, gymnastics or corrective exercises, according to his physical needs.

1a. Sports, Gymnastics or Corrective Exercises.

NIXON, HEATH, STREHLE

Required, Freshman year. First semester. $\frac{1}{2}$ hour. A.

1b. Self Defense.

NIXON, HEATH, STREHLE

Required, Freshman year. Second semester. $\frac{1}{2}$ hour. A.

2a-A2b. Gymnastic Exercises.

HEATH, STREHLE

Required of Freshmen not taking military. Freshman year. $\frac{1}{2}$ hour. A.

5a. Informational Hygiene.

NIXON

Must be taken in Freshman or Sophomore year unless equivalent is offered. First semester. 1 hour. *T, VI or VIII.*

3a. Swimming.

STREHLE

Required, Sophomore year. First semester. $\frac{1}{2}$ hour. A.

3b. Sports or Gymnastics.

NIXON, HEATH, STREHLE

Required, Sophomore year. Second semester. $\frac{1}{2}$ hour. A.

4a-B4b. Sports.

NIXON, HEATH, STREHLE

Required of Sophomores not taking military. Sophomore year. $\frac{1}{2}$ hour. A.

05a-C105b. Sports.

NIXON, HEATH, STREHLE

Required, Junior year, $\frac{1}{2}$ hour. A.

07a-C107b. Sports.

NIXON, HEATH, STREHLE

Required, Senior year. $\frac{1}{2}$ hour. A.

35a-D135b. Methods in Coaching and Supervising

Athletics.

NIXON, HEATH, STREHLE

Open to Senior men only. 1 hour. A.

219. Teaching of Physical Education.

NIXON

Second semester. 2 hours. *TTh, VIII.*

WOMEN

A medical and physical examination is given all entering students with subsequent posture tests. Physical activities are allowed or prescribed as the result of these examinations. Each student is assigned to her gymnasium class section. Students may have freedom of election in sports in as far as medical and physical examinations warrant, but must include during freshman and sophomore year one individual sport, one team or group sport, and one season of either folk or natural dancing.

A5a-A5b. Informational Hygiene.

BIGELOW

Must be taken in Freshman year, unless equivalent is offered.
1 hour. *Th, IV or VIII.*

A11a-A11b. Gymnastics.

BIGELOW, DILLON

Required, Freshman year. $\frac{1}{2}$ hour. *MW, VII or XIII.*

A12a-A12b. Sports.

BIGELOW, DILLON, TIGAR

Required, Freshman year. $\frac{1}{2}$ hour. *A.*

B13a-B13b. Gymnastics.

BIGELOW, DILLON, TIGAR

Required, Sophomore year. $\frac{1}{2}$ hour. *TTh, VIII or XIV.*

B14a-B14b. Sports.

BIGELOW, DILLON, TIGAR

Required, Sophomore year. $\frac{1}{2}$ hour. *A.*

C115a-C115b. Sports.

BIGELOW, DILLON, TIGAR

Required, Junior year. $\frac{1}{2}$ hour. *A.*

C117a-C117b. Sports.

BIGELOW, DILLON, TIGAR

Required, Senior year. $\frac{1}{2}$ hour. *A.*

D119a-D119b. Methods in Coaching and Supervising Sports.

BIGELOW, DILLON, TIGAR

1 hour. *A.*

D219. Theory of Teaching of Physical Education.

TIGAR

Second semester. 2 hours. *A.*

PHYSICS**A1a-A1b. Elements of Physics.**

HITCHCOCK

Designed for those having had no previous work in the subject.
Prerequisite: Elementary Algebra and Plane Geometry. Class
MW, V; laboratory, T, 1:15-4:10. Laboratory fee, \$5.00 each.

B2a-B2b. General Physics.

TILESTONE

A study of the phenomena and laws of mechanics, wave motion, sound, heat, magnetism, electricity and light. The course is designed to furnish a working knowledge of the basic principles of physics and is planned especially for the students who expect to continue their technical studies in medicine, engineering, chemistry or physics. Prerequisite: Trigonometry. Lecture: *III*; laboratory, *W and Th. 1:15-4:10*. 4 or 5 hours. Fee, \$5.00 each.

C111a-C111b. Advanced Magnetism and Electricity.

HITCHCOCK

Prerequisite: Physics B2 and Differential and Integral Calculus. *IX.*

POLITICAL SCIENCE AND LAW

After the year 1926-27 a reading knowledge of one modern language, preferably French or German, will be required of students entering C and D courses.

B1. Political Control.

STORY

The genesis and nature of significant political phenomena and the techniques and bases of control in political society. Prerequisite for all other courses in political science. First semester. *III*. Second semester. *VII*.

B2. American Government.

FAIRMAN

The genesis, nature, and institutional forms of the American state and federal systems with emphasis upon the development of political practice. Second semester. *III*.

C103. Municipal Problems.

STORY

Description, analysis and causal explanation applied to problems in the political organization and administration of urban communities. First semester. *I*.

C104. Political Institutions.

STORY

A study of the origin, development and nature of representative assemblies and of the present process of adapting them to increasingly complex conditions. Second semester. *I*.

C105. Elementary Law.

BURGESS

An introduction to the study of American law with some analysis of the rights and liabilities arising from the more common legal relationships. Second semester. *IV*.

C107. European Governments.

MACCOBY

A study of the governments of the principal European states including a special examination of contemporary history in cases where there has recently been violent change. Second semester. *III*.

C108. International Politics.

MACCOBY

Discussion of policies which result in clash of national interests and of methods by which these clashes can be prevented or their most harmful effects avoided. Second semester. *V*.

D101. Public Opinion.

STORY

The origin and nature of individual attitudes toward public policies and controls; consideration of the function and scope of individual participation in public affairs. First semester. *VII*.

D102. Parties and Politics.

STORY

Analysis of the problem of getting candidates and policies ac-

cepted in large democratic communities with diversified social and economic interests. Second semester. VII. (Alternates with D101. *Omitted in 1926-1927.*)

D111. Constitutional Law.

FAIRMAN

An examination of the Constitution of the United States and of decisions of the Supreme Court upon some questions arising thereunder. First semester. IV.

D118. International Law.

FAIRMAN

An examination of the laws governing the relations between states, as found in international agreements, the decisions of municipal and international tribunals, established customs, and the writings of jurists. Such international organizations as the Pan-American Union, the League of Nations, and the Permanent Court of International Justice are studied. Second semester. II.

D230, D231. Research in Political Science.

MEMBERS OF THE DEPARTMENT

Research and Reading courses within the fields indicated below may be arranged in consultation with the head of the department. Public Law; Politics; Political Institutions; Comparative Government; Municipal Problems. 2-4 hours. A.

Note: The following courses announced in related departments may be offered by anyone planning major work in Political Science: Economics C106, Public Finance; History D119, American Diplomatic History; History D219, Teaching of History and the Social Sciences; Psychology D112, Social Psychology; Philosophy D132, Philosophy of the State.

PSYCHOLOGY

B1 or B3 is prerequisite to all other courses in psychology.

B1. Elements of Psychology.

EWER, EYRE

The fundamental facts and laws of the mind. Principles of sensation, perception, memory, thought, feeling, emotion, instinct and will. The relation of mental processes to the nervous system and to action. First semester., Ewer, III, Eyre, V; second semester, Ewer, V.

B3a-B3b. Elements of Psychology.

WILLIAMS

A more comprehensive course than B1, including classroom experiments and demonstration in addition to text book, reference books and lectures. IV.

B8. Applications of Psychology.

WILLIAMS, EYRE

A critical study of the fundamental principles underlying all applied psychology together with their application in various

fields. First semester, Eyre, VI; second semester, Williams, III.

106. Problems of Psychical Research. EWER

The mysterious phenomena of the mind presented in the light of scientific psychology. The subjects considered include hyperesthesia, automatisms, illusions and hallucinations, hypnotism, contemporary occultism and spiritualism. Second semester. VI.

107. Educational Psychology. EWER

Practical applications of psychology to education. The inherited nature of the learner; principal features of the learning process; principles of educational discipline; methods of mental measurement. First semester. VII.

109. Advanced Psychology. WILLIAMS

A study of the various systematic points of view in contemporary psychology, principally those of structuralism, functionalism, behaviorism and mentalism. First semester. VII.

116. Comparative and Genetic Psychology. WILLIAMS

An intensive study of the methods used and the results obtained in the fields of animal and infant psychology. First semester. III.

118. Experimental Psychology. WILLIAMS

A laboratory course in psychology accompanied by lectures and discussions of the principles of scientific method used in psychological investigations. Second semester. Class, MF, V; laboratory, W, 1:15-4:10. Laboratory fee, \$2.00.

112. Social Psychology. EWER

Mental processes underlying social order and progress. Psychological aspects of contemporary social problems. Second semester. III.

117. The Measurement of Intelligence. WILLIAMS

A study of the principles and methods of intelligence testing with special emphasis upon the methods of giving the Stanford and Herring Revisions of the Binet Tests. Second semester. VII.

124. Psychotherapy. EYRE

Nervous and mental disorders and the principal methods of treatment. Second semester. VI.

125. Mental and Physical Hygiene in Education. EYRE

(See Education, D125.)

D129. Psychology of Religion.

EWER

An analytic study of the mental processes involved in the phenomena of religious emotion and belief. First semester. VI

D230. Seminar in Psychology.

WILLIAMS, EWER

A study of certain psychological problems. The topics change from year to year. First semester, Williams; second semester, Ewer. 2 hours. A.

PUBLIC ADDRESS**A11a-A11b. English: An Introductory Course.**

FRAMPTON, MCCULLY, SCOTT

A general course including work in literature, composition and public speaking. 4 hours. *MWF, III and S, VIII.*

A31a-A31b. Fundamentals of Speech.

SCOTT

Platform deportment and gesture. Development and use of the speaking voice. Both memorized and extempore speech material. 2 hours. *MW, III.*

B32a-B32b. Public Address.

SCOTT

Training in analysis of subjects, selection and arrangement of material, psychological adaptation of material and treatment to specific audiences. Prerequisite: Public Address A31, or equivalent. 2 hours. *TTh, IV.*

B35a, B35b. Argumentation and Debate.

SCOTT

Study of the principles of argumentation and practical application of these principles in class debates. Debate subject for the year analyzed and debated. 2 hours. *TTh, VI.*

B36. Parliamentary Usage.

SCOTT

Principles of parliamentary procedure and their application to the organization and conduct of assemblies. Second semester. 2 hours. *TTh, IV. (Omitted in 1926-1927.)*

C131a-C131b. Advanced Public Address.

SCOTT

Training in the construction and delivery of formal addresses. Prerequisite: Public Address B32 or equivalent. 2 hours. *TTh, VIII.*

C134a, C134b. Interpretative Reading of Dramatic Literature.

SCOTT

The intensive study of a limited number of standard plays with emphasis on dramatic values in character and plot. Presentation of scenes from such plays and of several one-act plays entire. Prerequisite: Public Address A31, or equivalent. 2 hours. *WF, VII.*

RELIGION

- A1. Orientation in Religion. BROOKS
A study of the influence of modern thought in the interpretation of religion and of the contribution of religion to civilization. Each semester. *IV*.
- B3. Old Testament History and Religion. BROOKS
First semester. 1 hour. *F, XI*.
- B5. The Prophets. BROOKS
Second semester. 1 hour. *F, XI*.
- B6. Introduction to New Testament. HAND
A careful study of such questions as date, authenticity, authorship, composition, integrity, purpose and contents of the documents which comprise the New Testament. First semester. 2 hours. *TTh, XII*.
- B7. The Teachings of Jesus. HAND
Special emphasis is laid on Jesus' conception of the Kingdom of Heaven, his revelation of God and his doctrine concerning his own person and his claims on the fealty of men. Second semester. 2 hours. *TTh, XII*.
- B8. The Evolution of the English Version. HAND
A study of the various texts and versions by which the Bible has come to be a literary possession of the English-speaking race. First semester. (*Omitted in 1926-1927.*)
- B9. The First Interpreters of Jesus. HAND
A study of the teachings of Paul and the general epistles as they have modified and interpreted Christianity. Second semester. (*Omitted in 1926-1927.*)
- C104a, C104b. Christian Origins. BROOKS
The purpose is to understand the program of Jesus in relation to present day problems. A survey of the transformation in Christianity in the age of the Apostles. *V*.
- C109a, C109b. The Religious World. BROOKS
This course surveys the origin and growth of religious experience, the characteristics of a fully developed religion, the rise of modern religious ideas, and the place of religion in social reconstruction. *III*.
- C125. History of Religions. TAYLOR
A study of the nature of religion, with special reference to the essential facts of early religions, and a more thorough study of existing non-Christian religions, their chief teachings and influences. First semester. *VI*.

C126. History of Christianity.

TAYLO

A study of the chief facts of Christian history, with reference to the great leaders and teachings of Christianity. A study of successive movements through which God has worked out his purpose. Second semester. VI.

C133. Principles of Religious Education.

TAYLO

A study of the psychological, pedagogical, and sociological principles underlying the practical work of religious education with special reference to the ultimate and immediate aims of religious education in the modification of human nature, and the necessity of conscious personal participation in vital social experiences as the bases of all educational religious value. First semester. IV.

C134. Materials and Methods of Religious Education.

TAYLO

This course emphasizes the necessity of the scientific approach in teaching religion. It includes a study of the criteria for evaluating the curriculum of religious education, the methodological principles of interpreting and teaching religion, and the relation of religion to the sciences. Second semester. IV.

D129. Psychology of Religion.

EWE

An analytic study of the mental processes involved in the phenomena of religious emotion and belief. First semester. V.

D130. Philosophy of Religion.

IREDE

A philosophical examination of the fundamentals of religion such as the nature of God, the problem of evil and the destiny of man. Prerequisite: Philosophy C125 or C127. Second semester. VI.

SPANISH**A21a-A21b. Elementary.**

HUSSC

Essentials of grammar and pronunciation. Dictation, reading from easy modern texts. One section. III.

B22a-B22b. Romance Literature in English.

HOLM

IV. (*Withdrawn in 1926-1927.*)

B23a-B23b. Nineteenth Century Novel.

HOLMES, HUSSC

Selections from Perez Galdos, Valdes, Valera, Pereda, Blas Ibanez. Collateral readings and reports, reports in Spanish. Prerequisite: Spanish A21 or equivalent. Three sections. VI, VII.

B24a-B24b. Composition and Commercial Correspondence.

HUSSON

This course includes intensive drill in conversation and grammatical reviews. Prerequisite: Spanish A21a or equivalent. 2 hours. *TTh, XII.*

C125. Contemporary Literature.

HOLMES

Readings from the leading novelists since 1880. Lectures. This course, and all to follow, conducted in Spanish. First semester. *VIII.*

C126. Drama of the Golden Age.

HOLMES

Readings from Calderon, Lope de Vega, Tirso, J. R. de Alarcon, and others. Lectures in Spanish upon the history of Spanish literature. Collateral readings and reports. Required of those majoring in Romanic Languages and specializing in Spanish. Second semester. *VIII.*

C126. (bis.) Contemporary Spanish Drama.

A study of Benevente, Rivas and others of the leading dramatists of the present century. Collateral readings and reports in Spanish. Second semester. *VIII. (Omitted in 1926-1927.)*

C127a-C127b. Spanish Conversation.

PIJOAN

Intensive drill in modern colloquial forms. Prerequisite: Spanish B23. 1 hour. *A. (Omitted in 1926-1927.)*

D128a-D128b. America del Sur.

JONES

A comprehensive and detailed study of the geographical, historical, literary and cultural phases of the leading Latin American nations. Prerequisite: Spanish C125 and C126. *VII.*

D129. Seventeenth Century Prose.

PIJOAN

La Celestina. El Lazarillo. Prerequisite: Spanish C126. First semester. *II.*

D130. El Romancero.

PIJOAN

The early Spanish ballads. *El Poema del Cid.* A study of the earliest manifestations in Spanish literature. Prerequisite: Spanish C126. Second semester. *II.*

D219. The Teaching of Spanish.

Second semester. *(Omitted in 1926-1927.)*

ZOOLOGY

3a-B3b. The Human Body.

GILCHRIST

A course in the structure and function of the human body. Students may enter the course either semester, but must at-

tend both semesters for credit. Class periods, *MF, I*; laboratory, *Th, 1:15-4:10*. Laboratory fee, \$6.00 each.

B11. General Zoology.

HILTON

Chiefly invertebrate groups considered. A general course which deals with the classification, general habits and distribution of animals. Prerequisite: Biology A1 or equivalent. First semester. Class, *TTh, II*; laboratory, *T or W, 1:15-4:10*. Laboratory fee, \$6.00.

B12. Vertebrate Zoology.

HILTON

A continuation of B11. This course deals with the vertebrate groups, their general classification, habits and distribution. More attention is given to the comparative structures of backboneed animals. Prerequisite: Zoology B3 or B11. Second semester. Class, *TTh, II*; laboratory, *T or W, 1:15-4:10*. Laboratory fee, \$6.00.

B18. Entomology.

HILTON

A general course in the structure and classification of insects. Each student makes his own collection for identification and study. Prerequisite: Biology A1 or Zoology B11. Second semester. Class period, *T, VIII*; laboratory, *W and Th, 1:15-4:10*. Laboratory fee, \$6.00.

C101. Mammalian Anatomy.

GILCHRIST

A laboratory study of the anatomy of the cat. Prerequisite: Zoology B3 (completed or in progress) or B11. First semester. Laboratory, *TF, 1:15-4:10*. Two hours. Laboratory fee, \$3.00.

C110. General Physiology.

GILCHRIST

A study of function: including such topics as protoplasm, metabolism, irritability, and behavior. Prerequisites: Inorganic Chemistry and Zoology B3 or B11. First semester. Lectures, *TTh, VIII*. Laboratory, *T, 1:15-4:10*. Laboratory fee, \$6.00.

C111. Advanced Invertebrate Zoology.

GILCHRIST

A study of the classification and ecology of invertebrates (other than land arthropods), with especial reference to the local fauna. There will be a number of field excursions to nearby fresh waters and to the coast. Prerequisite: Zoology B11. First semester. Lectures, *TTh, VIII*. 4:15; laboratory, *T or F, 1:15-4:10*. Laboratory fee, \$3.00. (*Omitted in 1920-1927.*)

C112. Advanced Vertebrate Zoology.

GILCHRIST

A lecture, field, and laboratory study of vertebrates, with special reference to the local fauna. A considerable proportion of the course will be devoted to birds. Prerequisite: Zoology

B11. Second semester. Lecture, *Th*, VIII; field excursion, *W*, I; laboratory, *T or F*, 1:15-4:10. Laboratory fee, \$3.00.

C113a, C113b. Histology.

HILTON

The first semester considers the tissues in general and the second the organs, especially of vertebrates. Some attention given to laboratory methods. This course is very helpful to special students of Zoology as well as to those expecting to prepare for medicine. Prerequisite: Zoology B3 or B11 and B12. Class, *T*, IV; laboratory, *TTh*, 1:15-4:10. Laboratory fee, \$8.00 each.

D117a, D117b. Embryology.

GILCHRIST

The first semester deals with maturation, fertilization and early development. The second semester is concerned with the formation of organs. Prerequisite: Zoology B3 or B11 and B12. Class, *M*, V; laboratory, *MW*, 1:15-4:10. Laboratory fee, \$8.00 each.

D131. Zoological Seminar.

HILTON, GILCHRIST

Reviews of important contributions in all fields of recent Zoological literature. Open to Juniors and Seniors. Second semester. 1 hour. *F*, I.

D133a, D133b. Neurology.

HILTON

A general consideration of the functions and structure of the nervous systems and sense organs. Prerequisite: Two years of Zoological work. A. Laboratory fee, \$6.00 each. (*Omitted in 1926-1927.*)

D135. Zoological Research.

HILTON

This course is for undergraduates who are prepared to undertake special problems in general Physiology, Zoology or Entomology. Such problems may be with local insects or other animals or they may be of a general nature dealing with life functions and processes. Either semester. 1 to 3 hours. A. May be repeated for credit. Laboratory fee, \$2.00 per hour.

D215. Zoological Research.

HILTON

This course is like D135 but is intended for graduate students only and may include some of the work for the master's degree. 2 to 5 hours. A. May be repeated for credit. Laboratory fee, \$2.00 per hour.

SUMMER SESSION 1926

COURSES OF INSTRUCTION

CLAREMONT DIVISION

CHEMISTRY

SA1.	Elementary Chemistry	BLAC
SB6.	Qualitative Analysis	BLAC
SB7.	Elementary Quantitative Analysis	BLAC

ECONOMICS

SB31.	Accounting	THOMSON
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EDUCATION

SB103.	Elementary Education	MRS. SAMUEL
SC104.	History of Education in the U. S.	A. P. HALL
SC107.	Educational Psychology	HAYDEN
SC113.	The Junior High School	FITZ
SC115.	Secondary Education	MOORE
SC119.	Classroom Methods and Management	C. B. ALLEN
SC125.	Growth and Development of the Child	WILLIAMS
SC130.	Public Education in California	MOORE
SD108.	Education for Citizenship	MATHEW
SD116.	Public School Administration and Supervision.	MOORE
SD118.	Educational Tests and Measurements	WILLIAMS
SD206.	The Principal and His School	C. B. ALLEN
SD207.	Methods in Mental Diagnosis	WILLIAMS
SD208.	Supervision of Instruction	HAYDEN
SD212.	The Philosophy of Education	C. B. ALLEN
SD216.	Practice Teaching (2 or 4 hours)	MRS. SAMUEL

ENGLISH

SA51.	English for Foreign Students	CONOR
SB6.	Three Major Prophets of the 19th Century— Ibsen, Tolstoy, Whitman	AMNT

C108.	English Literature Since 1890	CONNOR
C112.	Types of Drama from Aeschylus to Ibsen	CONNOR
D219.	The Teaching of English	FITTS

FRENCH

A1a and b.	Elementary	G. NIVON
B3a and b.	Second Year	A. NIVON

HISTORY

C114.	History of Europe Since 1900	MACCOBY
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LIBRARY SCIENCE

C101.	School Library Administration	KERR
C102.	Book Selection	KERR

MUSIC

A1a.	Harmony	W. A. ALLEN
B19.	Practical Schoolroom Music for Grade Teachers	GEHRKENS
C121.	Principles and Methods of Grade and High School Music Teaching	GEHRKENS

PHYSICAL EDUCATION

A5.	Hygiene	NIXON
D135.	Methods in Coaching and Supervising Athletics	NIXON
D219.	The Teaching of Physical Education	NIXON

POLITICAL SCIENCE

B32.	American Constitution and Government	MATHER
C108.	International Politics	MACCOBY

PUBLIC ADDRESS AND DRAMATICS

A31.	Fundamentals of Speech	SCOTT
C134.	Dramatic Reading and Interpretation	SCOTT
C135.	Play Production	POLE

COURSES OF INSTRUCTION

RELIGION

SC131. Movements in Religious Education R. J. TAYLOR

SPANISH

SA21a, b. Elementary HUSSON

LAGUNA BEACH DIVISION

SB11. General Zoology HILTON

SC15. Marine Zoology HILTON

SB18. Zoology of Insects HILTON

SC and SD. Special advanced work as arranged with individuals.

MOUNTAIN DIVISION

SD104. Field Botany MUNN

POST SESSION

 EDUCATION

SC130. Public Education in California HAL

SD215. Problems of Secondary Education HAL

POLITICAL SCIENCE

SB2. American Constitution and Government THOMSON

ADMINISTRATION

PUBLIC ASSEMBLIES

It is the practice of the College to give opportunity to the common college interests for their consideration and expression on four mornings of each week. At the present time these exercises usually occur at 8:30 a. m. on Monday, Tuesday, Thursday and Friday, and include in their scope the intellectual, social and religious life of the College.

The policy of the College is to urge the students to associate themselves for worship with the Claremont Church or those in neighboring communities. For this reason there is no regular appointment for College worship on Sunday, though many forms of religious activity are maintained in connection with the churches.

REPORTS

A record of the scholarship and deportment of each student is kept, and deficient students are reported to the Registrar. Special reports are made at or near the Thanksgiving and Spring exercises; notification is sent to the parents of any students reported deficient then, or at the end of the semester. Grades will be sent at any time upon request of parents.

The grade of scholarship is determined by the daily work of the classroom supplemented by frequent test reviews and by final examinations.

The aim is to encourage faithfulness and regularity in daily work rather than spasmodic effort to meet some single test.

PHYSICAL ATTENTION

The physical care of students is a matter of special concern to the College and the advantages of unusual attention and opportunity are offered. The climate of Southern California

offers an out-of-door life the year round. Oversight is given to open-air athletics in all seasons. A regular physician is on the faculty of the College, under whose direction every student on entering has a physical examination. Regular work in physical education is prescribed throughout the four years, and courses in Physiology and Hygiene are given. A large swimming pool is provided, access to which is free to all students, subject only to a semi-annual physical examination. The medical advice of the College physician is ordinarily available free of charge to all students, subject to certain conditions of hours and location. At the residence, the College meeting these bills; provided that a nursing, surgical dressing, and medicines as well as medical service in chronic or protracted illness are at the expense of the ill or injured. *The College, however, reserves the right to discontinue this individual medical service at any time without previous notice.* As a natural result of all this attention the health of the College is such as to give special assurance to all considering attendance at Pomona.

GENERAL REQUIREMENTS

Students are expected to be loyal to the spirit and purpose of the institution and to maintain regular attendance on all College appointments. Any student who falls below grade in scholarship, or who, for any reason, in the judgment of the faculty or its proper committees, is felt not to be a desirable member of the student body, may be dismissed without specific charges.

It is assumed that, as far as possible, students will room in the College residence halls and board at the College Commons. Any other arrangement for room or board must have the approval of the proper Dean. Lists of approved rooms for men are kept at the office of the Dean of the College; for women, at the office of the Dean of Women. All rooms in the College residence halls are rented for the College year. Unless there is

Written agreement to the contrary, it is assumed that rooms in private houses are rented for one semester. Change of rooms is made only by permission of the Deans.

To avoid misunderstanding between students and householders, it is advised that agreements regarding rooms be put in written form.

It is urgently pointed out to both students and parents that the value of a college education consists in no small degree in the fullest participation in the college atmosphere and life. It is important, therefore, that all absence through the college year should be avoided. Some of the most important of the college values are lost by absences on Saturday and Sunday, on which days are centered particular and vital phases of the common life, and it is therefore urged that over-Sunday visits at home or elsewhere be avoided.

Experience bears out the conclusion that the owning or renting of automobiles by students while in residence at college, except in cases where they are used regularly for local transportation to and from college, is a distinct detriment to faithful participation in those common phases of college life which are of greatest value, and especially discourages concentration upon a serious program of study. The College, therefore, strongly advises parents not to provide automobiles for students, except when they are a practical necessity in carrying forward a normal collegiate program of study and work.

The use of tobacco is discouraged at all times.

Detailed information regarding college requirements is found in the *Manual of Procedure*, which should be secured by all students at the office of the Registrar.

EXPENSES

ROOMS IN COLLEGE RESIDENCE HALLS. A deposit of \$10.00 is necessary to secure a room and should accompany the application for the room. This amount is retained as a breakage

fee, from which deductions will be made for individual and communal damages to the building, the balance being returned at the end of the year. Rooms are assigned to new students in order of application.

The charge for rent does not include the use of the halls during the Christmas and Spring vacations when the halls are closed. The residence halls are opened the Saturday before the opening of the College year and closed the second day after commencement.

Each room is provided with the necessary furnishings, including rug for the floor; the only articles to be furnished by the student are towels, and linen and covers for a single bed.

The College reserves the right to dismiss from a dormitory without rebate any student who becomes a disturbing or undesirable occupant.

SMILEY HALL. This dormitory for men has both single rooms, and suites of three rooms accommodating two students. Each occupant pays \$100.00 for the College year.

RESIDENCE HALLS FOR WOMEN. Harwood Court, the beautiful residence hall for women, in which is included the dormitory known as Strong Hall has both single and double rooms, as well as suites for two or three students. For each individual the charge is ordinarily \$150.00 for the College year. In a few cases rooms are \$130.00 each, if occupied by two students; \$200.00 if occupied by one.

The cottages have double rooms, each student paying from \$120.00 to \$140.00 per year, according to the location of the room.

Women occupying College residence halls or cottages are expected to board in the College dining-room, and rooms are rented in these buildings only in conjunction with the advance payment for board. Freshman women not resident in their own homes are also expected to board in the College dining-room.

BOARD. In the College dining-room provision is made for the boarding of students under the direct management of the College. The rates are the lowest consistent with good quality of food and service, the approximate cost for 1926-1927 being \$260.00. Arrangements may be made to pay by installment at a slightly higher rate than by the semester. All board bills are payable in advance.

In addition to the College dining-room there is a cafeteria dining-room seating approximately one hundred students. The quality and cost of food in the two rooms are the same.

Men or women wishing to board at other approved places than the College dining-room or the cafeteria may do so by permission of the proper Dean, except as specified above.

SUMMARY OF EXPENSES. The necessary expense for the College year, exclusive of fees for special courses and expenses which are purely personal, is about \$650.00.

BILLS. All College bills are due each semester in advance and must be paid by the student at the time of registration. No refunds are made to those leaving before the end of the semester except that in the case of those leaving before the middle of the semester because of illness one-half of the tuition and laboratory fees are refunded and in the case of those dropping out for good cause within a week of their registration all but \$25.00 is returned. No refund is made on a room payment unless the room is re-rented to someone not then rooming in a college residence hall.

Students are not given honorable dismissal nor graduated whose bills are not paid. Seniors must settle all recognized bills by 4 p. m., of the fourth day preceding Commencement if they are to receive their diplomas with their class.

TUITION

GENERAL CHARGES

Regular tuition, including all general privileges, Music and Drama Course Ticket, Library privileges, etc., per semester	\$125.00
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Tuition for students carrying less than twelve hours of work, for each such hour, per semester exclusive of above general privileges.....	10.50
Laboratory fees, as stated after description of courses.	

CHARGES IN MUSIC AND ART¹

For those paying regular tuition:

For one half-hour private lesson in music per week, per semester	\$ 45.00
For each half-hour private lesson in excess of one per week, per semester.....	40.00
For each class lesson per week in art, per semester.....	18.00

For those carrying less than twelve hours of college work, exclusive of work in music or art:

For one-half hour private lesson in music per week, per semester	60.00
For each half-hour private lesson in excess of one, per semester	40.00
For each class lesson in art per week, per semester, for the first lesson.....	25.00
For each additional lesson.....	18.00

FEES

Graduation fee, \$10.00.

Laboratory fees range from \$2.00 to \$15.00. The exact fee for a given course is stated in connection with the description of that course under Courses of Instruction; in advanced courses only does it exceed \$10.00.

A visitor's fee of \$5.00 is required from those visiting a course of study and \$3.00 for each additional course.

BREAKAGE DEPOSITS

Bacteriology and Plant Physiology, \$5.00 each.

Chemistry, \$10.00 for each course taken.

Practice fees for the use of College pianos and organs:

PIANO

One-half hour daily, per semester (voice students).....	\$ 3.50
One hour daily, per semester.....	6.00

Additional hours at the same rate.

¹Students may register for Applied Music at any time, equitable charges being arranged upon application.

GRAND PIANO

One hour daily, per semester.....\$ 9.00
Additional hours at the same rate.

GREAT ORGAN IN BRIDGES HALL

One hour weekly, per semester.....\$ 7.50
Additional hours at the same rate.

PRACTICE ORGAN

One hour weekly, per semester.....\$ 3.00
Additional hours at the same rate.

PEDAL ORGAN

One hour daily, per semester.....\$9.00
Additional hours at the same rate.

PRACTICE FEE, VIOLIN OR VIOLONCELLO

Room without piano, one hour daily, per semester.....\$ 1.50
Additional hours at the same rate.

HONORS AND PRIZES

HONORS AT GRADUATION

Honors at graduation are of two types, General Honors and Departmental Honors.

GENERAL HONORS: Graduation "*cum laude*" is granted to those who earn 50 per cent more credits than hours and graduation "*magna cum laude*" to those earning 75 per cent more credits than hours. The honor "*summa cum laude*," if granted, is awarded by a committee "consisting of one member of the faculty selected from and by each (group) division of the Faculty" from the number of those entitled to the "*magna cum laude*." Beginning with the class of 1928 these honors will be granted only to students who have met the requirements for a major in one of the collegiate departments.

In the determining of General Honors all the work taken is considered except the required work in Physical Education.

DEPARTMENTAL HONORS: Juniors of special ability are permitted to pursue for the remainder of their college work a special *Honors Course* which involves partial freedom from classroom requirements and comprehensive examinations at the end of the senior year. Such students are expected to read widely over a field somewhat broader than a single department, and also to develop rather intensively a narrower field. Their initiative is expected to lead them to more than usual understanding.

Students who successfully complete the *Honors Course* are given degrees "with Honors in _____ (name of department)" or "with High Honors in _____ (name of department)."

Further information concerning the *Honors Course* may be obtained from the Honors Committee of the Faculty.

HONORS IN COURSE

COURSE HONORS are given at the end of each semester to

undergraduate students who average 85 per cent more credits than the honors for which they were registered. The grades in Physical Education and Applied Military Science are not considered in the award of these honors, save that they must be at least passing.

Course Honors for the first semester are published early in the second semester; those for the second semester early in the next fall, save that second semester honors of seniors are published Commencement Day.

THE PHI BETA KAPPA SOCIETY

The Pomona Chapter of Phi Beta Kappa is the Gamma of California.

Upperclassmen "who are of good moral character, who are candidates for the degree of Bachelor of Arts, and who are distinguished for breadth of culture and excellence of scholarship" are eligible to membership in the Phi Beta Kappa Society.

PRIZES

The following prizes are offered for proficiency in the work of the several departments:

THE BARBARA SANFORD ALLEN PRIZE: An annual competitive prize of a value of not less than fifty dollars to be awarded to a student of organ playing in the Department of Music. This award is made possible by the husband and parents of a graduate of the Class of 1915 of Pomona College.

THE LLEWELLYN BIXBY MATHEMATICS PRIZE: A prize for excellence in Analytic Geometry and Calculus; open to all students completing both Mathematics B13 and C115. A prize of ten dollars is given by Mr. Llewellyn Bixby.

THE DOLE PRIZES: A prize debate upon some subject selected by the faculty, is arranged for the close of the second semester. First and second prizes of fifteen and ten dollars, respectively, established by the late Mr. J. H. Dole, in memory of his brother, Mr. W. B. Dole, are endowed by Mr. J. Albert Dole and Mr. A. M. Dole.

THE HAGER PRIZES: Prizes for the best three essays on a foreign missionary subject, open to all students. Prizes of ten dollars each were endowed by the late Mr. and Mrs. C. R. Hager.

THE KINNEY PRIZES: A prize declamation contest, open to the members of the Freshman class, occurs toward the end of the first semester. First and second prizes of fifteen and ten dollars, respectively, are endowed by Mrs. H. N. Kinney.

THE LORBEER PRIZES: Prizes for the best essay on the subject, "How to Keep Well"; open to all who take the course in Anatomy and Physiology. First and second prizes of fifteen and ten dollars, respectively, are given by Dr. Thomas L. Lorbeer, '03.

THE MONCRIEFF ASTRONOMY PRIZE: A prize given to the student in the first year course in Astronomy, taken regularly in class, whose interest in the study and proficiency in the observatory work are indicated by the best notebook kept in accordance with the teacher's suggestion. A prize of ten dollars is given by Miss Flossie C. Moncrieff, '11.

THE MUDGE LATIN PRIZES: Prizes for excellence in Latin. First and second prizes of ten and five dollars, respectively, are endowed by friends of the College.

THE VAILE PRIZES: Prizes for the best essay or oration on the general subject of Agriculture in Southern California; open to the Junior and Senior Classes. First and second prizes of fifteen and ten dollars, respectively, were endowed by the late Mr. Charles S. Vaile.

SCHOLARSHIPS AND BENEFICIARY AID

The income of certain funds is used towards paying the tuition fees of students who are in pecuniary need, and, by authorization of the trustees, is distributed annually through a committee of the faculty. Scholarship aid is given only to students who are or intend to become candidates for a degree from Pomona College, who maintain a high standard of honor, who are economical in their habits, who do not use tobacco, who are regular in their attendance upon college exercises, and whose scholarship meets the following condition: The maintaining, after the first semester of the Freshman year, of at least "C" grade.

Applicants for aid who have not yet entered College should forward to the Chairman of the Committee on Student Aid and Labor, a formal application accompanied by two letters, one from parent or guardian and the other from principal or teacher, giving information concerning need, character and attainments. They should also send a certified statement of their scholastic record. All applications for aid must be renewed annually on or before May first.

Aid may be withdrawn at any time from students who prove not to have conformed to the conditions, and is permanently withdrawn after the second forfeiture due to low standing or unsatisfactory deportment.

Recipients of scholarship aid may be called upon to assist the College in ways that do not interfere with their studies.

Awards are made from the income of the following funds:

THE FRANCIS BANCROFT MEMORIAL FUND, \$1,500. Given by Mrs. James T. Ford of Los Angeles, California, in memory of her father.

A FUND OF \$2,500. Given by L. H. BARROWS.

THE MARTHA E. BERRY MEMORIAL SCHOLARSHIP OF \$5,000. Given by Miss Elizabeth E. Berry. For foreign students.

THE H. G. BILLINGS MEMORIAL SCHOLARSHIP, \$1,000. Given by Mrs. E. A. Billings of Los Angeles, California, in memory of her husband.

THE MABEL S. BRIDGES MEMORIAL SCHOLARSHIP, \$3,500. Given by Mr. and Mrs. A. S. Bridges of San Diego, California, in memory of their daughter. Available for women.

THE KATE CONDIT BRIMHALL MEMORIAL MUSIC SCHOLARSHIP FUND, \$2,000. Given by the late Mr. and Mrs. A. P. Condit.

THE BRISTOL MEMORIAL FUND, \$400. A fund raised as a memorial to the Reverend Sherlock Bristol.

THE HENRY HERBERT BROWN SCHOLARSHIP FUND, \$1,000. Given by Mrs. Fannie E. Brown of Los Angeles, California, in memory of her son.

THE BESSIE A. BROWN SCHOLARSHIP FUND, \$1,000. Given by Mrs. Fannie E. Brown of Los Angeles, California, in memory of Bessie A. Brown.

A FUND OF \$941.78. Given by the Class of 1918 towards the founding of a scholarship.

THE CHARLES C. CRAGIN MEMORIAL SCHOLARSHIP FUND, \$5,025. Given by Mrs. Laura E. Cragin in memory of her husband, Rev. Charles C. Cragin.

THE AGNES K. CRAWFORD MEMORIAL FUND, \$1,000. Given by David R. Crawford and William Crawford, in memory of their mother.

EBELL CLUB OF POMONA SCHOLARSHIP FUND, \$400.

A FUND OF \$2,600. Given by Mary E. Elwood of Redlands, California.

A FUND OF \$2,500. Given by Rev. James T. Ford of Los Angeles, California.

A FUND OF \$1,000. Given by Mrs. Margaret Fowler of Pasadena, California.

A GENERAL FUND OF \$17,540.

ALICE PAUL HARWOOD SCHOLARSHIP FUND OF \$2,000. Open to graduates of Chaffey Union High School of Ontario.

A FUND OF \$5,000. Given by Charles E. Harwood, LL.D., of Upland.

THE THOMAS F. HOWARD MEMORIAL SCHOLARSHIP FUND, \$2,000. Given by Dr. and Mrs. H. G. Brainerd of Los Angeles, California, in memory of Mrs. Brainerd's father.

KAPPA DELTA HONOR SCHOLARSHIP OF \$205. Given by members of Kappa Delta fraternity.

STELLA M. KING SCHOLARSHIP FUND FOR WOMEN, \$10,000.

A FUND OF \$2,000. Given by Henry L. Kuns of La Verne.

A FUND OF \$1,800. Given by Miss Jean Loomis, '97, of Nan-king, China.

THE HOWARD J. MILLS FUND OF \$3,000. Given by Mrs. Howard J. Mills of Los Angeles, California, in memory of her husband.

THE ONTARIO CONGREGATIONAL CHURCH FUND, \$186.50. Given by the Ontario Congregational Church towards the founding of a scholarship.

A FUND OF \$5,000. Given by Mrs. Loraine H. Page of Pomona, California. (Three thousand dollars of this may at some time be used for other purposes.)

THE ARTHUR WARREN PHELPS MEMORIAL SCHOLARSHIP FUND, \$2,000. Given by the late Mrs. C. S. and Mr. C. A. Phelps, in memory of their son and brother.

THE LYDIA PHELPS MEMORIAL FUND, \$4,000. Given by Hiram E. Phelps of Ontario, California, in memory of his wife.

THE PILGRIM CHURCH OF POMONA FUND, \$1,572.44. Given by the Pilgrim Congregational Church of Pomona towards the founding of a scholarship.

THE JOHN D. POTTER MEMORIAL FUND, \$2,000. Given by Mrs. S. T. Potter of Westboro, Massachusetts, in memory of her husband.

THE FRANCIS M. PRICE FUND OF \$1,000. For children of missionaries.

A FUND OF \$1,800. Given by Dr. Anna H. Searing of Escondido, California.

THE WALTER O. SHATTO MEMORIAL FUND, \$4,000. Given by Mrs. Clara R. Shatto in memory of her husband.

THE CLYDE H. SHIELDS SCHOLARSHIP FUND, \$1,200. Given by R. P. Shields of San Diego, in memory of his oldest son, who was drowned in 1894, when about twenty-one years of age.

THE SWEET SCHOLARSHIP FUND OF \$2,500. Given by Harlan P. Sweet in memory of his wife, C. Nell Sweet.

A FUND OF \$2,000. Given by Miss Susan E. Thatcher of San Diego.

A FUND OF \$1,000. Given by Mrs. Maria T. Wardwell of Plymouth, Connecticut.

A FUND OF \$2,000. Given by Henry S. West of Los Angeles.

The College also administers loan funds established by the bequest of Ellen H. Lyman and by George H. De Kay, Jr., in memory of his brother Frelin Campbell De Kay. By means

of these funds, it is possible to co-operate in a moderate way, and temporarily, with the pressing need of students.

THE HARMON FOUNDATION extends to four selected students its assistance by a loan for tuition.

THE HENRY STRONG SCHOLARSHIPS (three scholarships of \$250 each), \$750. Established by the Henry Strong Foundation under the provisions of the will of Henry Strong, late of Chicago, Illinois, and Santa Barbara, California.

SELF-SUPPORT

A committee of the faculty endeavors to find employment for students needing to earn a part of their expenses. Many are thus helping themselves by various forms of labor such as janitor work, waiting on tables at the Commons, general house work, gardening and the like. The most desirable positions are in general secured by upperclassmen who have proven themselves good workers and good students, and those coming to the College for the first time should be content if any work which they can satisfactorily do is secured for them. Students in any case should come prepared to pay all bills for at least one semester. Their record during this semester will be a large factor in deciding what opportunities for self-help will be open to them. Applications for aid in securing employment should be addressed to the Chairman of the Committee on Student Aid and Labor.

BUILDINGS AND EQUIPMENT

The College grounds consist of about four hundred acres, of which sixty are included in Blanchard Park, about ten in Alumni Field, thirty in a prospective athletic field, fifty in the campus proper, centering in Marston Quadrangle, and two hundred and fifty in a newly acquired tract, the gift of Miss Ellen B. Scripps.

There are nineteen buildings on the campus, heated from a central heating plant.

The Mary L. Sumner Hall, named in memory of the wife of Professor Charles B. Sumner, has been removed from its original site and remodeled for administrative and faculty uses.

Holmes Hall, a memorial of Cyrus W. Holmes, Jr., of Monson, Massachusetts, reconstructed in 1916 in conformity with more modern plans for buildings and campus, is devoted mainly to chapel, recitation rooms, the Business office, and the offices of the Registrar and the Dean of the College.

Pearsons Hall of Science, the gift of Dr. D. K. Pearsons, contains the laboratories and lecture rooms of the departments of physics, psychology, mathematics and engineering.

The Library, the gift of Mr. Andrew Carnegie, is an imposing structure, exceptionally well adapted to the purposes for which it was built.

The Frank P. Brackett Observatory, the gift of Mr. Llewellyn Dixby, '01, is designed throughout to be of service to the student in the direct study of the stars.

The Albert K. Smiley Hall is the dormitory for men. It has both single rooms and suites of three rooms, affording accommodations for eighty students. The dormitory has all modern conveniences and is completely furnished.

Harwood Court is a large and adequate dormitory affording accommodations for about two hundred women.

The College also owns several cottages, in which similar accommodations can be secured. These facilities have been made pos-

sible by large and generous gifts from friends of the College.

Rembrandt Hall, the first section of the Art Building, is devoted chiefly to the work of the Department of Art. The upper floor contains studio and work rooms; the lower floor a convenient auditorium of moderate size for exhibits and assemblies.

The Mabel Shaw Bridges Hall of Music, the gift of Mr. and Mrs. Appleton S. Bridges, of San Diego, offers opportunities for the study of music unexcelled in the West.

The Gymnasium, comprising three commodious structures, affords ample equipment for physical training and includes a large swimming pool.

The Claremont Inn has, besides two large student dining-rooms, accommodations for eighty guests.

The Open-Air Theater, built to take advantage of the natural setting of Blanchard Park, though uncompleted, has at present a seating capacity of over 4000.

The Harwood Hall of Botany, the gift of Mr. A. P. Harwood, of Upland, contains lecture rooms and laboratories for the use of the Department of Botany.

The Memorial Training Quarters stands as a remembrance of the Pomona College men who lost their lives in the Great War. It represents the gift of the parents of one of those men, Sheldon Gerry, '17, supplemented by those of alumni, students and friends.

The Mason Hall of Chemistry, the gift of Mr. W. S. Mason, is unsurpassed in structure and equipment for the study of Chemistry.

The Crookshank Hall of Zoology is the gift of Mr. D. C. Crookshank. It provides amply for the needs of the Department of Zoology.

The Marine Laboratory, located at Laguna Beach, has nine private rooms for special workers and two general laboratories as well as storerooms, work rooms and aquarium room.

The Pomona College summer camp at Bluff Lake in the San Bernardino Mountains consists of five modern cabins, located on the tract of 120 acres given to Pomona College by Mr. J. S. Edwards. The camp, at an elevation of 7,500 feet, is in a region of great and unspoiled natural beauty.

Various smaller buildings add to the completeness of the College plant.

THE LIBRARY

The main library, of 50,509 books and 45,450 pamphlets, has been carefully selected, and represents a working library of exceptional value.

The College possesses the following library collections in addition to the main library: The Cook-Baker Biological Library, the Astronomical Library, the New England Collection, the Mason California Collection, and the Viola Minor Westergaard Art Collection.

The main library and the New England and Mason California collections are housed in the Carnegie Library Building, the Cook-Baker Library in Crookshank Hall, the Astronomical library in the F. P. Brackett Observatory, and the Westergaard Art Collection in Rembrandt Hall.

The library is a depository for the publications of the Carnegie Institution of Washington, and for the United States Government documents. The library has a well selected list of the most valuable scholastic and general periodicals.

DEPARTMENTAL ORGANIZATIONS

Under the general direction of various departments the following organizations have been formed:

THE POMONA COLLEGE GLEE CLUB

THE POMONA COLLEGE WOMEN'S GLEE CLUB

THE POMONA COLLEGE CHOIR

THE POMONA COLLEGE SYMPHONY ORCHESTRA

THE POMONA COLLEGE BAND

THE ASTRONOMICAL SOCIETY

THE SOCIETY OF PURE AND APPLIED MATHEMATICS

THE HISTORY CLUB

LE CERCLE FRANCAIS

EL CIRCULO ESPANOL

IL CIRCOLO ITALIANO

DER DEUTSCHE VEREIN

STUDENT ACTIVITIES

THE ASSOCIATED STUDENTS. This association coordinates all student activities. Its officers are chosen by the student body from their own number. All important questions are considered by its executive committee, which is composed of those prominent in such varied lines as athletics, oratory, and the editorship of the Student Life. This body has charge of inter-collegiate as well as inter-class relations.

ASSOCIATED WOMEN STUDENTS. The women of the student body form a voluntary organization, electing their own officers and committees and holding regular meetings. This organization considers and promotes the special interests of the women.

CHRISTIAN ASSOCIATIONS. Branches of the Young Men's Christian Association and the Young Women's Christian Association have long been influential factors in the life of the College.

Literary, debating and dramatic organizations are represented by the following:

THE POMONA COLLEGE DEBATING CLUB

ALPHA KAPPA

THE POMONA COLLEGE LYCEUM

DELTA LAMBDA

THE MASQUERS

PHI KAPPA SIGMA

ALPHA DELTA MU

THE COSMOPOLITAN CLUB has for its object the promotion of friendly relations among the various nationalities represented at Pomona College. Membership is open to any student or member of the Faculty whose home is outside of the United States or who has at some former time resided in a foreign country.

ATHLETICS. The direction and financial management of athletics rest with the Director of Athletics, who has associated with him as an advisory body the Athletics Council, composed of three members of the faculty and three students. Under the general manager there is a student manager for each sport.

Alumni Field, consisting of about ten acres, has been developed by the alumni into athletic grounds admirably equipped and unsurpassed in the Southwest in beauty of setting. First-class tennis courts, an excellent track, baseball and football fields, also hockey and basketball courts are within the limits of the campus, the courses of the Indian Hill Golf Club are available, and athletic exercises and field sports are encouraged by the officers of the institution.

A swimming pool, of the standard size for water polo, and fully equipped with modern appliances, is open to all students. An invariable condition to the use of the pool is a semi-annual medical examination.

Students are required to maintain a certain standard of excellence in all their studies in order to represent the College or any of its athletic teams or other organizations coming before the public.

PUBLICATIONS

The stated publications of the College are issued as numbers of the *Pomona College Bulletin*, which is published bi-monthly. These include:

The *Annual Catalog*.

The *Annual Register of Alumni*.

The *Annual Register of Trustees, Faculty and Students*.

The *Annual Announcement of Courses*.

The *Annual Directory*.

Alumni and departmental publications are:

The *Pomona College Quarterly Magazine*, devoted to the interests of the College and Alumni.

The *Journal of Entomology and Zoology*, published under the auspices of the Department of Zoology.

The *Publication of the Astronomical Society of Pomona College*, published under the auspices of the Department of Astronomy.

The *College Letter*, issued by the College for the information of the alumni.

STUDENT PUBLICATIONS

The *Student Life* is published daily by the student body and is devoted to current affairs.

Manuscript is a literary magazine issued four times a year.

The *Metate* is published each year by the associated students, and contains material appropriate to a college annual.

The *Hand Book*, which contains material designed especially for new students, is issued at the beginning of the year by the associated students.

BUREAU OF APPOINTMENTS

A Bureau of Appointments is conducted in connection with the office of the Secretary of the Faculty for the benefit of members of the College who desire to teach after graduation. The purpose of the Bureau is to maintain a list of available positions and to recommend from the applicants registered those who are qualified for specific positions.

An opportunity is also offered graduates of the College who are already engaged in teaching, to register their present positions and to indicate whether they desire a change, and if so, under what conditions. An effort is made to further the desires of graduates so far as made known. The services of the Bureau are entirely gratuitous. Communications should be addressed to the Bureau of Appointments.

SUMMARY OF STUDENTS

NOVEMBER, 1926

Graduate Students.....	30
Seniors	198
Juniors	203
Sophomores	218
Freshmen	228
Specials	16

Total Enrollment Regular Session.....	893
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SUMMER SESSION

Regular Students at Claremont.....	300
Regular Students at Laguna.....	30
Regular Students at Bluff Lake.....	6
Post Session	17

Total.....	353
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INDEX

- Administration, 85
- Admission, 28
 - as Special Students, 30
 - Description of Subjects
 - Accepted for, 31
 - Requirements for, 28
 - to Advanced Standing, 29
 - to Freshman Standing, 28
 - of Graduate Students, 30
- Alumni Field, 99, 104
- Art, 42
- Assemblies, Public, 85
- Associated Students of Pomona College, 103
- Associated Women Students, 103
- Associate Faculty, 25
- Astronomy, 43
- Athletics, 104
- Bills, 89
- Biology, 44
- Blanchard Park, 99
- Board, 89
- Board of Trustees, 15
 - Committees of, 16
 - Officers of, 16
 - Secretary of, 15
- Botany, 45
- Bridges Hall, 100
- Buildings and Equipment, 99
- Bureau of Appointments, 106
- Calendars, 4, 5
- Campus, 99
- Character of the College, 12
- Chemistry, 46
 - Mason Hall of, 100
- Choice of Subjects, 33
- Christian Associations, 103
- Church Attendance, 85
- Claremont Inn, 100
- Class Officers, 27
- College Commons, 89
- College Entrance Examination
 - Board, 28
- College Physician, 86
- Contents, 6
- Courses, Designation of, 41
- Courses of Instruction, 41
- Courses Required for Admission to Freshman Standing, 30
- Credit Requirements, 33
- Curriculum, 33
- Degrees—
 - Bachelor of Arts, 33
 - Master of Arts, 37
- Departmental Major, 35
- Departmental Organizations, 102
- Dormitories—
 - Men, 88, 99
 - Women, 88, 99
- Economics and Sociology, 48
- Education, 51
- Election of Courses, 32
- Engineering, 52
- English Composition and Language, 53
- English Composition, 53
- English Language, 54
- English Literature, 55
- Examinations, Entrance, 28
 - Medical, 28
- Expenses, 87
- Expenses, Summary of, 89
- Extra Entrance Credits, 31
- Faculty, 17
 - Committees of, 27
 - Associate, 25
 - Visiting, 26
- Fees, 90
- French, 57
- General Requirements, 86
- Geology, 58
- German, 59
- Greek, 60
- Gymnasium, 100
- Harwood Court, 88, 99
- Harwood Hall, 100
- Historical Sketch, 9

- History, 61
- Holmes Hall, 99
- Honors and Prizes, 92
 - General Honors, 92
 - Departmental Honors, 92
- Honors Course, 35
- Hour Requirements, 33
- Inn, the Claremont, 100
- Italian, 63
- Laguna Beach Marine Laboratory, 100
- Latin, 63
- Lecture Foundations, 39
- Library, 99, 101
- Location and Surroundings, 12
- Map of Campus, 110
- Marine Laboratory, 100
- Marston Quadrangle, 99
- Master's Degree, 37
- Mathematics, 64
- Matriculation, 32
- Memorial Training
 - Quarters, 100
- Military Science, 66
- Music, 67
- Music and Art Courses, 36, 90
- Music and Drama Course, 37
- Observatory, The Frank P.
 - Brackett, 99
- Open-Air Theater, 100
- Outline of Work by Years, 40
- Pearsons Hall of Science, 99
- Phi Beta Kappa, 93
- Philosophy, 69
- Physical Attention, 85
- Physical Education, 70
- Physical Examination, 28
- Physics, 72
- Political Science and Law, 73
- Prizes, 93
- Psychology, 74
- Publications, 105
- Public Address, 76
- Public Assemblies, 85
- Registration, 32
- Religion, 77
- Rembrandt Hall, 100
- Reports, 85
- Requirements for Admission,
 - Residence Halls, 87, 88
 - Rooms, 87
- Scholarships and Beneficiary
 - Aid, 95
- School of Education, 37
- Self-Support, 98
- Smiley Hall, 88, 99
- Sociology, 48
- Spanish, 78
- Special Students, Admission
 - as, 30
- Strong Hall, 88
- Student Activities, 103
- Students, Summary of, 106
- Subject Requirements, 34
- Summary of Expenses, 89
- Summary of Students, 106
- Summer Session, 36
 - Courses of Instruction, 82
 - Visiting Faculty, 26
 - Bluff Lake Camp, 101
- Sumner Hall, 99
- Swimming Pool, 104
- Teachers' Certificates, 36
- Trustees, 15
- Tuition, 89
- Zoology, 79
 - Crookshank Hall of, 100

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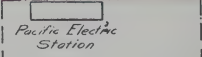
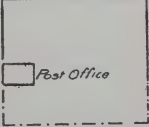
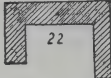
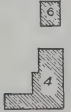
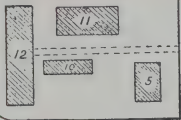
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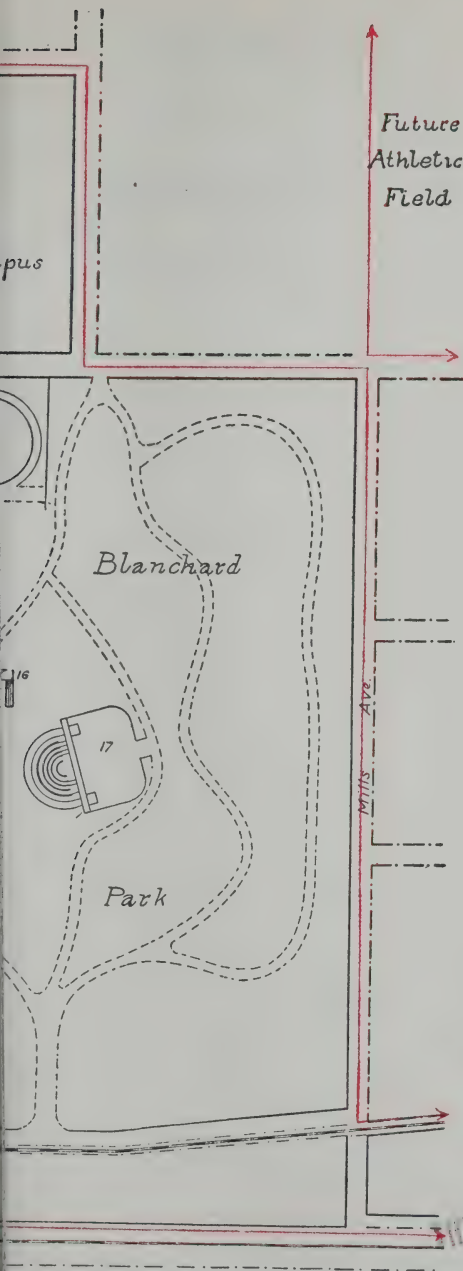
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Campus

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1. *Sumner Hall (Administration)*
2. *Holmes Hall (Recitation and Chapel)*
3. *Bridges Hall (Music)*
4. *The Inn and Commons*
5. *Pearsons Hall (Science)*
6. *The President's House*
7. *The Library*
8. *Smiley Hall (Men's Dormitory)*
9. *Rembrandt Hall (Art)*
10. *Harwood Hall (Botany)*
11. *Crookshank Hall (Zoology)*
12. *Mason Hall (Chemistry)*
13. } *Gymnasium*
14. } *Buildings*
15. }
16. *The Observatory*
17. *Open-air Theater*
18. *Baseball Diamond*
19. *Tennis Courts*
20. *Memorial Training Quarters*
21. *Alumni Athletic Field*
22. *Harwood Court (Women's Dormitory)*
23. *Site for President's House*
24. *Studio*
25. *Heating Plant*

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Annual Catalog

1927-1928



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CORRESPONDENCE

Correspondence should be addressed as follows, the postoffice address being in every case Pomona College, Claremont, California:

Requests for catalogs, bulletins and general information, also inquiries to the Appointment Bureau

SECRETARY OF THE FACULTY

Admission of Students

REGISTRAR

Business Affairs

CONTROLLER

Student Affairs

DEAN OF THE COLLEGE AND DEAN OF WOMEN

Regional Service

DIRECTOR OF REGIONAL SERVICE

Applications for faculty appointments

DEAN OF THE FACULTY

Public Events and Lectures

CHAIRMAN OF COMMITTEE ON PUBLIC EVENTS

Summer Session

DIRECTOR OF THE SUMMER SESSION

Alumni Affairs

SECRETARY OF THE ALUMNI ASSOCIATION

POMONA COLLEGE BULLETIN

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No. 5

Fortieth Year

Pomona College

ANNUAL CATALOG

REGISTER OF OFFICERS AND
TEACHERS FOR THE YEAR
1927 - 1928, REQUIREMENTS
FOR ADMISSION, DESCRIPTION
OF COURSES AND GENERAL
INFORMATION

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November, 1927

CLAREMONT · CALIFORNIA
Published by the College

1927							1928							1929						
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16	17	18	19	20	21	22	15	16	17	18	19	20	21	14	15	16	17	18	19	20
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13	14	15	16	17	18	19	13	14	15	16	17	18	19	11	12	13	14	15	16	17
20	21	22	23	24	25	26	20	21	22	23	24	25	26	18	19	20	21	22	23	24
27	28	29	30	..	..	..	27	28	29	30	31	..	..	25	26	27	28	29	30	..
DECEMBER							JUNE							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	..	1	2	..	..	..	..	..	1	2	..	..	..	..	..	1	2
4	5	6	7	8	9	10	3	4	5	6	7	8	9	2	3	4	5	6	7	8
11	12	13	14	15	16	17	10	11	12	13	14	15	16	9	10	11	12	13	14	15
18	19	20	21	22	23	24	17	18	19	20	21	22	23	16	17	18	19	20	21	22
25	26	27	28	29	30	31	24	25	26	27	28	29	30	23	24	25	26	27	28	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	31	..	..	..	..	..

COLLEGE CALENDAR

1927

September	12, <i>Monday</i>	}	Registration Days for Freshmen
September	13, <i>Tuesday</i>		
September	14, <i>Wednesday</i>	}	Registration Days for Sophomores, Juniors and Seniors.
September	15, <i>Thursday</i>		
September	16, <i>Friday</i>		Convocation, 9:00 a. m.
September	16, <i>Friday</i>		First Semester Classes begin, 10:15 a. m.
October	14, <i>Friday</i>		Founders Day
November	23, <i>Wednesday</i>		Thanksgiving Recess begins, 4:05 p. m.
November	28, <i>Monday</i>		Thanksgiving Recess ends, 7:30 a. m.
December	16, <i>Friday</i>		Christmas Recess begins, 4:05 p. m.

1928

January	3, <i>Tuesday</i>		Christmas Recess ends, 7:30 a.m.
January	16, <i>Monday</i>		Kinney Freshman Contest in Declamation, 8 p. m.
January	18, <i>Wednesday</i>	}	Mid-year Examinations
January	28, <i>Saturday</i>		
January	28, <i>Saturday</i>		First Semester ends
January	28, <i>Saturday</i>		Mid-year Graduation
January	30, <i>Monday</i>		Registration Day for underclassmen and specials
January	31, <i>Tuesday</i>		Registration Day for upperclassmen and graduates
February	1, <i>Wednesday</i>		Second Semester Classes begin, 7:30 a. m.
February	16, <i>Thursday</i>		Matriculation Day
February	22, <i>Wednesday</i>		Washington's Birthday
March	30, <i>Friday</i>		Spring Recess begins, 4:05 p. m.
April	10, <i>Tuesday</i>		Spring Recess ends, 7:30 a. m.
May	30, <i>Wednesday</i>		Memorial Day
May	31, <i>Thursday</i>	}	Final Examinations
June	7, <i>Thursday</i>		
June	11, <i>Monday</i>		Commencement

SUMMER VACATION

June	25, <i>Monday</i>		Summer Session begins
August	3, <i>Friday</i>		Summer Session ends
September	19, <i>Wednesday</i>	}	Registration Days. Examinations for entrance
September	20, <i>Thursday</i>		
September	21, <i>Friday</i>		Convocation, 9:00 a. m.

CONTENTS

	PAGE
College Calendar	5
Historical Sketch	9
Character of the College	12
Board of Trustees	15
Officers of the Board	16
Committees of the Board	16
Faculty	17
Summer Session—Visiting Faculty	26
Class Officers	27
Committees of the Faculty	27
Admission	28
General Requirements and Methods of Admission	28
Admission to Freshman Standing	28
Admission to Advanced Standing	29
Admission as Special Students	30
Admission of Graduate Students	30
Courses Required for Admission to Freshman Standing	30
Description of Subjects	31
Extra Entrance Credits	31
Registration	32
Matriculation	32
Election of Courses	32
Curriculum	33
Degree of Bachelor of Arts	33
Hour Requirements	33
Credit Requirements	33
Choice of Subjects	33
Subject Requirements	34
Departmental Major	35
Reading for Honors	35
Courses in Music and Art	36

	PAGE
Teachers' Certificates	36
Summer Session	36
Music and Drama Course	37
Degree of Master of Arts	37
School of Education	37
Lecture Foundations	39
Outline of Work by Years	40
Courses of Instruction	41
Summer Session—Courses in	79
Administration	81
Public Assemblies	81
Reports	81
Physical Attention	81
General Requirements	82
Expenses	83
Tuition	85
Fees	86
Honors and Prizes	88
Honors at Graduation	88
Honors in Course	89
The Phi Beta Kappa Society	89
Prizes	89
Scholarships and Beneficiary Aid	91
Self-Support	94
Buildings and Equipment	95
The Library	97
Departmental Organizations	98
Student Activities	98
Publications	100
Bureau of Appointments	101
Summary of Students	101
Index	102
Map of Campus	105

HISTORICAL SKETCH

THE history of the development of Southern California from a land sparsely inhabited and apparently fit only for a cattle range, into a genuine American commonwealth with its multitude of prosperous communities, covers little more than forty years; but this brief span of time has been a period of intense activity and remarkable growth. This epoch of swift progress was inaugurated by the completion of a second transcontinental railway, in this case piercing Southern California directly from the East, together with the sudden awakening to a realization of the great agricultural possibilities of the section through irrigation. A large immigration and a rapid increase in land values were at once induced. New towns sprang up almost in a day and great industrial projects characteristic of such a period were at once inaugurated.

While the commercial and speculative interests were conspicuously in evidence there were among the new settlers, nevertheless, many whose chief concern was for the higher values of life and character. Not least among these were those whose former affiliations had been with New England and its institutions. The Southern California District Association of Congregational Churches, meeting in San Bernardino in 1882, agitated the question of founding a college of the New England type. In 1886 the Association met at Lugonia (now Redlands), when the report of the educational committee was an earnest appeal for such a college. At this meeting a larger educational committee than usual was appointed and was instructed to view locations and invite proposals of aid toward establishing a "Christian College of the New England Type." In accordance with these instructions the committee visited various places from which they had received offers of aid and gave the matter serious and careful consideration.

In May, 1887, the District Association met in Los Angeles and became the General Association of Southern California. This General Association immediately gave full power to its committee of education, not only to select the College site, but to appoint trustees for the prospective institution. Fifteen trustees, one of whom is still a member of the board, were duly appointed; the College was incorporated October 14, 1887, under the name of The Pomona College; and a site was selected about four miles north of the city of Pomona.

For the immediate needs of the College a small private house was rented in Pomona, and in it the work of instruction was begun in September, 1888. In the following January an unfinished hotel in Claremont (now Sumner Hall), together with considerable land adjacent, was given to the College and the work was transferred to that place. It was originally supposed that this location would be temporary. Later this plan was abandoned and Claremont was made the permanent seat of the College. By this time, however, the name of "Pomona College," tentatively given, had become so definitely fixed that it has been retained notwithstanding the change of location.

The growth of the College has been swift and constant. The first class was graduated in 1894, at which time the total number of college students was forty-seven. For some time the work of the Preparatory School was of large importance, but later on this was discontinued owing to the increased growth and importance of the College. The maximum number which can now be received is 800 divided equally between men and women and among the four classes. This limitation compels the rejection of a large number of applications. The original campus of about twelve acres has been enlarged by purchase and by gifts until it now comprises approximately four hundred acres; and this area, together with its buildings, is being developed according to plans carefully worked out by competent landscape gardeners and architects, the whole growth being in accord with one harmonious plan.

The imperative demand for expansion has led to the careful study of the ways in which the obvious advantages of the small college could be maintained while still making possible the gathering together of the equipment that is justified only in a large university. This study has resulted in the adoption of the group plan of affiliated colleges. To this end "Claremont Colleges" was incorporated October 14, 1925, and the first of the new units known as Scripps College in honor of Miss Ellen Browning Scripps, whose generosity and vision made it possible, was opened in September, 1927.

All this rapid progress of the institution has been made possible by a most generous company of friends who have responded nobly to the calls of higher Christian education and to the needs of young people. From the very beginning the institution has been the creation of sacrifice, affection and idealism. To a remarkable degree the College has been made possible by a great democracy of high-minded givers, and the character of these benefactors is reflected in the daily life and procedure of the College.

While the College was originally Congregational in organization, it long ago made itself the servant of a wider fellowship. The Board of Trustees is a self-perpetuating body, absolutely free from ecclesiastical control and representing different communions, but obliged, nevertheless, by the College Charter to maintain the institution as truly Christian, though unsectarian. From the first it has been the policy of all concerned in the administration of the institution to maintain a high standard of college life and work, and to put the emphasis upon quality in the development of strong and serviceable Christian manhood and womanhood. Thus the purpose for which the College was founded is expressed in its motto, "*Our Tribute to Christian Civilization.*"

CHARACTER OF THE COLLEGE

POMONA COLLEGE is located at Claremont on the Santa Fe and Pacific Electric Railways, thirty-five miles from Los Angeles. It is connected by the Pacific Electric Railway with Pomona, which is four miles distant, on the Union Pacific and Southern Pacific roads. On the rim of an orchard-covered valley, which is hemmed in on all sides by lofty mountains, and with Mt. San Antonio in the immediate background rising to the height of ten thousand feet, its situation is one of rare beauty. The genial southern climate invites to outdoor life and exercise the year round, while the deep canyons, the rushing streams and the long trails to the heart of the hills allure to the rewarding intimacies of nature. The town of Claremont, which now numbers about two thousand inhabitants, owes its existence to the College, and has the attractive features of the typical college community. The location and situation, within easy reach of the great and growing metropolis of the Southwest, and yet in the quiet retirement of valley and hill, is uniquely wholesome and stimulating in full measure to simplicity and thoughtfulness and all the best enthusiasms of which life is capable.

The College is pre-eminently a company of workers. From the very beginning it has maintained a reputation for interest in thorough scholarship rather than in large numbers. The procedures of the College are established in the purpose of appealing to students who appreciate the seriousness of the College opportunity. To this end, the standards of admission are unusually high. Not only is the number limited, but as defined elsewhere only students who have finished their preparation with a high grade of promise are received. It is the distinct purpose to make the membership in the institution itself a scholastic honor. This inevitably involves a sacrifice of certain values which would be

temporarily pleasurable but which are not consistent with the most remunerative purposes.

It is the habit of the College to urge that scholarship should not only be high but also broad and inclusive. Pomona College is not a professional school. It insists that the best preparation for life includes not only the ample, generous and complete training of the college course, such as is here given, but also at a later period a thorough and definite professional specialization. It has farther insisted that this best and most complete training is practicable for a much larger number of young people than commonly feel that they have the resources of time and money for it. The College is eager to co-operate in the problems of such aspiring students; it has also been singularly successful in permeating its body of students with these ambitions, and the remarkable success of its graduates is due in no small degree to the fact that nearly seventy per cent of all who have graduated have taken subsequent professional training.

To the end that the College may be adequate for the broadest intellectual citizenship and service, a certain number of courses representing typically the differentiated fields of knowledge and investigation are required, and particular emphasis laid upon those topics which relate to the history of thought, the organization of society and the bases of truth and righteousness. These courses are required of all, whether staying a longer or shorter time in the institution, as being important to the main purpose for which the College exists. While these few courses are required, there is around them ample field for selection, according to the student's individual interest and purpose.

The College recognizes the fact that social training is also an essential part of education. It is believed that the co-educational character of the College greatly increases the culture of the student body in this respect. Working together on the highest levels of life, men and women are most likely to associate in mutual respect and dignity. It is practically the unanimous testi-

mony of the graduates of this College that these relations add to the genuine wholesomeness and rounded worth of the student's life. While emphasizing social values and opportunities, the College, however, recognizes them as interests which must be held subordinate to the main business of study and work. For this reason limitations which sometimes may seem narrow are laid upon the social life of the college community. Fraternities and sororities, in the ordinary acceptance of these terms, and extravagant social life, do not exist at Pomona College, and no one should seek the institution who is not willing to make surrender of some personal pleasures in the interests of the common college earnestness and simplicity.

Once more; the College is frankly Christian. It owes its origin and support to men and women of Christian ideals; it can not, therefore, be other than loyal to these interests. Instead of maintaining a separate Christian life, the College also urgently lays upon its students the obligation of allegiance to that wide democracy of service and uplift which is represented in the Christian Church. The College is, nevertheless, emphatically broad in its hospitality to modern thought. It holds that no student should go out of the College unaware of the throbbing questions of the day or unprepared to face the winds of free discussion; therefore, it welcomes all honest expression of opinion, putting faith in the power of truth to hold its own in the arena of open debate. It thus seeks to resource the coming generation with a leadership of intellectual capacity, directed will and Christian character.

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BUTLER A. WOODFORD	Claremont

Term of Office Expires June, 1932

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HARVEY S. MUDD	Los Angeles
JOHN TREANOR	Los Angeles

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ERNEST E. JONES, *Treasurer and Secretary*

GEORGE S. SUMNER, *Controller*

COMMITTEES OF THE BOARD

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DELL A. SCHWEITZER

BUTLER A. WOODFORD

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HENRY K. BOOTH

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EDWARD C. HARWOOD

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EDWARD C. HARWOOD

GEORGE L. EASTMAN

WILLIAM S. MASON

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JACOB C. HARPER

LUTHER FREEMAN

ARTHUR J. MCFADDEN

FACULTY¹

AMES ARNOLD BLAISDELL

345 College Ave.

President, 1910

B.A., Beloit College; M.A., Beloit College; D.D., Beloit College; LL.D., Drury College and Occidental College. Graduate, Hartford Theological Seminary.

YRUS GRANDISON BALDWIN

Palo Alto

President Emeritus, 1890

B.A., Oberlin College; M.A., Oberlin College. Student, Andover Theological Seminary; D.D., Oberlin College.

EDWIN CLARENCE NORTON

145 W. Seventh St.

Dean of the Faculty and Professor of the Greek Language and Literature on the Edwin Clarence Norton Foundation, Emeritus, 1888.

B.A., Amherst College; M.A., Amherst College and Yale University; Ph.D., Carleton College; D.D., Pacific Theological Seminary. Graduate Student, Johns Hopkins, Columbia and Oxford Universities.

FRANK PARKHURST BRACKETT

270 E. Third St.

Professor of Astronomy on the Frank Parkhurst Brackett Foundation and Director of the Observatory, 1888.

B.A., Dartmouth College; M.A., Dartmouth College; Sc.D., Dartmouth College. Honorary Fellow, Clark University.

THEBE ESTELLE SPALDING

261 W. Fifth St.

Professor of English Literature on the Phebe Estelle Spalding Foundation, Emeritus, 1889.

B.L., Carleton College; M.L., Carleton College; Ph.D., Boston University.

GEORGE GALE HITCHCOCK

721 College Ave.

Professor of Physics, 1892.

B.A., University of Nebraska. Graduate Student, Johns Hopkins and Cornell Universities.

GRACE ELLA BERRY

353 W. Eleventh St.

Associate Professor Mathematics, 1909.

Dean of Women, 1909-1927.

B.S., Mount Holyoke College; M.A., Mount Holyoke College.

MILTON ERASTUS CHURCHILL

507 Yale Ave.

Editor of College Publications, 1902.

B.A., Knox College; M.A., Knox College; Litt.D., Knox College; B.D., Yale University. Graduate Student, University of Leipzig.

Arranged in order of appointment to present rank. The date in each case denotes the beginning of original term of service.

MENDAL GARBUTT FRAMPTON 927 Harvard Ave.
Professor of the English Language, 1904.

B.A., Illinois College; M.A., Illinois College; M.A., Harvard University. Graduate Student, Harvard and Chicago Universities.

CHARLES GRACCHUS NEELY 739 College Ave.
Professor of Constitutional History and Law on the Dan Herbert Colcord Foundation, Emeritus, 1911.

B.L., University of Illinois.

WILLIAM ATWOOD HILTON 1293 Dartmouth Ave.
Professor of Zoology on the Willard George Halstead Foundation, 1905.

B.S., Cornell University; Ph.D., Cornell University.

ROBERT DAY WILLIAMS Mills Ave. N. of Mesa Ave.
Professor of Experimental Psychology, 1909.

B.S., Pomona College; M.A., Yale University; Ph.D., Yale University. Graduate Student, University of California.

BERNARD CAPEN EWER 706 Indian Hill Blvd.
Professor of Psychology, 1916.

B.A., Brown University; M.A., Brown University; Ph.D., Harvard University.

RALPH HAINE LYMAN¹ 357 W. Tenth St.
Professor of Applied Music and Instructor in Singing, Head of Department of Music, 1917.

B.A., Grinnell College. Student in voice with Karleton Hacke William B. Olds, Grant Hadley, Arthur Middleton, Courtland Cooper, Holmes Cowper and other American masters and with Vittorino Moratti in Berlin.

MARO BEATH JONES 125 W. Eleventh St.
Professor of Romanic Languages, 1911.

B.A., Boston University; M.A., Boston University. Graduate Student, Universities of Chicago, Geneva and Barcelona. Student, Estudis Universitaris Catalans, Barcelona.

WILLIAM EVAN NICHOLL 465 W. Sixth St.
Dean of the College and Assistant Professor of Education, 1919.

B.A., Bellevue College; M.A., Columbia University. Graduate Student, Edinburgh University.

HOMER ELMER ROBBINS 487 Harrison Ave.
Professor of Classical History and Language, 1915.

B.A., University of Michigan; M.A., University of Michigan; Ph.D., University of Michigan. Graduate Student and holder University and Buhl Classical Fellowships, University of Michigan.

¹Absent on leave, second semester, 1927-1928.

ROBERT CHARLES DENISON 232 W. Fifth St.
Professor of Philosophy, 1920.

B.A., Amherst College; B.D., Andover Theological Seminary;
 D.D., Amherst College.

RAYMOND CUMMINGS BROOKS¹ 489 W. Sixth St.
*Professor of Religion on the Nancy M. Lyon Foundation,
 1921.*

B.A., Tabor College; B.D., Yale Divinity School; D.D., Tabor
 College and Whitman College. Graduate Student, Oberlin College.

RUCE McCULLY 236 College Ave.
Professor of English Literature, 1921.

B.A., Hiram College; M.A., University of Chicago; Ph.D., Harvard
 University.

WILLIAM KIRK 705 Indian Hill Blvd.
*Professor of Social Economics on the Henry Snyder Foun-
 dation, 1922.*

B.A., Johns Hopkins University; Ph.D., Johns Hopkins University.

WILLIAM POLK RUSSELL 506 E. Sixth St.
*Professor of Mathematics on the Joseph W. Fiske
 Foundation, 1904.*

B.A., Cumberland University; M.A., Cumberland University.
 Graduate Student, Columbia, Harvard and Yale Universities.

GEORGE SAMUEL BURGESS 154 E. Tenth St.
*Professor of Law, Secretary of the Faculty and Director
 of the Summer Session, 1918.*

B.A., University of Michigan; J.D., University of Michigan.

EUGENE WHITE NIXON 1034 Harvard Ave.
Professor of Physical Education for Men, 1916.

B.A., Monmouth College. Graduate Student, Illinois, California
 and Columbia Universities.

RANK WESLEY PITMAN 116 E. Twelfth St.
Professor of History, 1924.

Ph.B., Yale University; M.A., Yale University; Ph.D., Yale Uni-
 versity.

BLAND R. TILESTON 1129 Dartmouth Ave.
Professor of Physics, 1925.

B.A., Dartmouth College; M.A., Dartmouth College; D.Sc., Colo-
 rado College.

RUSSELL McCULLOCH STORY 127 W. Eighth St.
Professor of Political Science, 1925.

B.A., Monmouth College; M.A., Harvard University; Ph.D., Har-
 vard University.

¹ absent on leave, second semester, 1927-1928.

- CHARLES TABOR FITTS¹ 826 Harvard Av
Registrar and Assistant Professor of English, 1919.
 B.A., Amherst College. Graduate Student, University of California.
- WILLIS HOLMES KERR 470 W. Seventh S
Librarian, 1925.
 B.A., Bellevue College; M.A., Columbia University. Graduate Student, Edinburgh University.
- JAMES HENRY FAIRCHILD 137 W. Seventh S
College Physician, 1925.
 B.A., Pomona College; M.D., Rush Medical College.
- PHILIP ALEXANDER MUNZ 1165 Indian Hill Bldg
Professor of Botany on the Henry Kirke White Bent Foundation, 1917.
 B.A., University of Denver; M.A., University of Denver; Ph.D., Cornell University. Graduate Student, University of Chicago.
- AUBREY AUGUSTUS DOUGLASS 1030 Dartmouth Av
Professor of Education, 1926.
 B.A., Kansas State Teachers College; M.A., Clark University. Ph.D., Clark University.
- KENNETH DUNCAN 1120 Harvard Av
Professor of Economics on the Stedman-Sumner Foundation, 1926.
 B.A., Wabash College; M.A., University of Wisconsin; Ph.D., University of Michigan.
- GEORGE A. SANFORD 910 Columbia Av
Professor of Military Science, 1926.
 B.A., Kenyon College. Major, Infantry, U. S. Army.
- HENRY ALFRED HOLMES 334 W. Mesa Av
Professor of Romanic Language and Literature, 1926.
 B.A., Wesleyan University, Middletown, Conn.; M.A., Wesleyan University; Ph.D., Columbia University. Graduate Student, Universities of Buenos Aires and Mexico.
- ALFRED OSWALD WOODFORD¹ 639 Yale Av
Professor of Geology, 1915.
 B.A., Pomona College; Ph.D., University of California.
- JESSIE EDITH GIBSON 1022 Harvard Av
Dean of Women on the Martha N. Hathaway Foundation, 1927.
 B.A., University of Idaho.

¹Absent on leave, 1927-1928.

HARLES JUDSON ROBINSON 809 Indian Hill Blvd.
Professor of Chemistry, 1927.

B.S., Illinois Wesleyan University; Ph.D., Johns Hopkins University.

ROBERT JOHN TAYLOR 1279 Yale Ave.

*Director of Extension Work in Religious Education and
 Acting Professor of Comparative Religion, 1923.*

B.A., Hamline University; M.A., University of Southern California; D.D., Hamline University.

JOHN SCHOLTE NOLLEN Claremont Inn

Acting Professor of German, 1927.

B.A., Central College of Iowa and State University of Iowa; LL.D., State University of Iowa; Ph.D., University of Leipzig; Graduate Student, Zurich, Leipzig, Paris, Berlin.

JOSEPH PIJOAN Cor. Via Zurita and Via La Selva

*Adjunct Professor of Hispanic Civilization and Lecturer
 on the History of Art, 1924.*

Lic. Architecture and Letters, University of Barcelona. Student, University of Rome.

GEORGE WILLIAM HUNTER 210 E. Mesa Ave.

Adjunct Professor of Biological Science, 1926.

B.A., Williams College; M.A., Williams College; Ph.D., New York University.

ARCHER BUTLER HULBERT³

Adjunct Professor of American History, 1927.

B.A., Marietta College; M.A., Marietta College. Student, Western Reserve, Chicago, Wisconsin, Columbia and Harvard Universities; also London and Paris.

RAYMOND WOODBURY PENCE³

Adjunct Professor of English, 1927.

B.A., Ohio State University; M.A., Ohio State University.

FREDERICK MERK, PH.D.

Harvard Exchange Professor of History, 1927.

VALTER ALFRED ALLEN¹ 272 E. Second St.

Associate Professor of Musical Theory and Appreciation, and Instructor in Organ, 1912.

B.A., Beloit College; B.Mus., Yale University. Associate, American Guild of Organists.

EDWARD TAYLOR²

Associate Professor of Engineering Science, 1920.

C.E., University of Minnesota; M.A., University of Southern California. Graduate Student, University of Oregon.

Absent on leave, 1927-1928.

Absent on leave, first semester, 1927-1928.
 second semester.

EVERETT SAMUEL OLIVE

136 W. Seventh St

*Associate Professor of Piano, 1923.*B.Mus., Simpson College. Graduate Student, Simpson College.
Pupil of Moritz Mayer-Mahr and Mme. Teresa Carreno in Berlin.

ELLIOTT CURTIS LINCOLN

365 E. Eighth St

*Associate Professor of English Literature, 1924.*B.A., Colby College; M.A., State College of Washington and
Harvard University.

BENJAMIN DAVID SCOTT

828 College Ave

Associate Professor of Public Address, 1923.

B.A., University of Southern California; S.T.B., Boston University; Ph.D., Boston University. Graduate work, Boston, Brown and Harvard Universities.

JOSEPH WADDELL CLOKEY

935 Indian Hill Blvd

Associate Professor of Organ, 1926.

B.A., Miami University. Graduate, Cincinnati Conservatory of Music.

ROBERT TRESILIAN BELCHER

452 W. Sixth St

Assistant Professor of Mathematics and Engineering, Emeritus, 1907.

B.A., Queen's University. Graduate Student, Queen's College and University of California.

FRANK DAVID THOMSON

640 Indian Hill Blvd

Assistant Professor of Accounting, 1918.

B.A., Knox College; M.A., Knox College. Graduate Student, Johns Hopkins University.

CLIFFORD NOTT HAND

1045 Yale Ave.

Director of Religious Interests, 1919.

B.L., Pomona College; B.D., Pacific School of Religion; M.A., University of Southern California. Graduate Student, University of California.

ARTHUR BABCOCK

1133 Yale Ave.

Assistant Professor of Singing, 1921.

Graduate of the New England Conservatory of Music. Member of faculty of the New England Conservatory of Music. Pupil of Sbriglia, in Paris.

RALPH RAYMOND UNIACKE

160 W. Eleventh St.

Assistant Professor of Violin, 1923.

Pupil of Franz Milcke.

MARY BROOKS EYRE

246 Dartmouth Ave.

Assistant Professor of Psychology, 1924.

B.A., Stanford University; M.A., Stanford University.

- CHARLES FAIRMAN** 316 Yale Ave.
Assistant Professor of Government, 1926.
 B.A., University of Illinois; M.A., University of Illinois; M.A., Harvard University; Ph.D., Harvard University. Student at the Institut des Hautes Etudes Internationales, University of Paris.
- REGINALD R. BACON** 480 Alexander Ave.
Assistant Professor of Military Science and Tactics, 1927.
 B.S., Agricultural College of Utah. Captain, U. S. Army.
- WILLIAM HENRY COOKE** 219 W. Sixth St.
Assistant Professor of History, 1927.
 B.A., Pomona College; M.A., Pomona College.
- ROGER WILLIAMS TRUESDAIL** 430 W. Sixth St.
Assistant Professor of Chemistry, 1927.
 B.A., University of Redlands; M.S., University of Oregon; Ph.D., University of Washington.
- JANE MCGOWND** 904 Columbia Ave.
Assistant Professor of Physical Education for Women, 1927.
 B.A., Teachers College, Columbia University; M.A., Teachers College, Columbia University.
- TABLE CLAIRE WEST** 460 W. Tenth St.
Instructor in Piano, 1905.
 B.S., Pomona College. Graduate Student, Peabody Conservatory of Music, Baltimore. Pupil of Ernest Hutcheson.
- JOSE FRIEDA BISSIRI** La Verne Ranch
Instructor in French, 1920.
 B.A., Kreuzlingen College, Switzerland.
- MARION JEANETTE EWING** 487 W. Sixth St.
Assistant Librarian, 1912.
 B.A., Olivet College; B.S., Simmons College; M.A., Boston University.
- COLVIN HEATH** 270 W. Twelfth St.
Instructor in Physical Education for Men, 1922.
 B.A., Pomona College.
- RANCIS GARRITT GILCHRIST** 346 Harvard Ave.
Instructor in Zoology, 1924.
 B.A., University of California.
- ROBERT LOBINGIER STREHLE** 1019 Dartmouth Ave.
Instructor in Physical Education for Men, 1923.
 B.A., Pomona College.
- AULINE ALDERMAN** 244 W. Fifth St.
Instructor in Musical Theory and Appreciation, 1924.
 B.A., Reed College. Graduate Student, Institute of Musical Art, New York City.

- FRANCES DILLON 130 W. Seventh St.
Instructor in Physical Education for Women, 1924.
 B.A., Wooster College. Graduate Student, Wellesley College.
- FRANCIS RAYMOND IREDELL 120 E. Eleventh St.
Instructor in Philosophy, 1925.
 B.A., Pomona College; M.A., Harvard University.
- MARY D. BIGELOW Miramar and Mills Aves.
Instructor in Physical Education for Women, 1925.
 Graduate, Department of Hygiene, Wellesley College.
- MARGARET HUSSON 618 Harvard Ave.
Instructor in Spanish, 1925.
 B.A., University of Kansas; M.A., Columbia University.
- EARL JAY MERRITT Smiley Hall
Instructor in Physical Education, and Freshman Class Adviser, 1925.
 B.A., Pomona College.
- JAY PLOWE 1403 Alta Vista, Los Angeles
Instructor in Flute, 1925.
- MARJORIE CARVER WEIRICK 1704 La Senda Pl., So. Pasadena
Instructor in Cello, 1925.
 B.S., Pomona College. Graduate, Institute of Musical Art. Pupil of Hans Willeke in New York.
- PAUL LUTHER KARL GROSS 1040 College Ave.
Instructor in Chemistry, 1926.
 B.S., University of Chicago; M.S., University of Chicago; Ph.D., University of Chicago.
- HOPE TABER FORD 325 Harvard Ave.
Instructor in Voice, 1926.
 B.A., Oberlin College.
- THOMAS MONTAGUE BEGGS 136 W. Seventh St.
Instructor in Art, 1926.
 B.F.A., Yale University. Graduate, General Art Course at Pratt Institute.
- HAROLD DAVIS 353 W. Eleventh St.
Instructor in English, 1927.
 B.A., Stanford University; B.A. and B.Litt., Oxford University.
- MILO LIVINGSTON WOOD 241 E. Tenth St.
Instructor in English, 1927.
 Ph.B., University of Chicago; M.A., Harvard University. Graduate Student, Harvard University.

PAUL DUDLEY

320 Yale Ave.

Instructor in Geology, 1927.

B.A., Pomona College.

MARY HALL

241 E. Eleventh St.

Instructor in Piano, 1927.

B. Mus., Drury College. Pupil of Raymond Havens and Alfred Mirovitch.

ESSE JOSEPH COLEMAN

870 N. Towne Ave., Pomona

Instructor in Public School Music, 1927.

B. Mus., Chicago University. Pupil of Percy Rector Stephens and DeWitt Durgin Lash.

RAMSAY LORD HARRIS

1102 College Ave.

Instructor in English, 1927.

B.A., Colgate University; Graduate student, Rochester Theological Seminary, Universities of Rochester, Redlands and Southern California.

ERLE V. SIMON

449 Columbia Ave., Pomona

Instructor in Economics, 1927.

B.A., Pomona College; M.B.A., Harvard School of Business Administration.

ANNA E. BAGSTAD

487 W. Sixth St.

Instructor in German, 1927.

B.A., Yankton College.

HATTIE C. MCCONNAUGHEY

260 E. Seventh St.

Cataloger, 1924.

B.A., Hillsdale College; B.Pd., Hillsdale College; Graduate Student, University of Michigan and Pomona College.

DOROTHY A. VAN FLEET

308 Alexander Ave.

Head of Circulation Dept., 1926.

B.A., Pomona College.

MARY CAROLINE BLAISDELL

833 Indian Hill Blvd.

Assistant Registrar, 1927.

B.A., Pomona College; M.A., George Washington University.

SUMMER SESSION 1927

VISITING FACULTY

PHILIP D. SHERMAN

English and Dramatics.

M.A., Brown University.

ARTHUR GOULD

Education.

B.A., Pomona College; M.A., Yale University.

ARTHUR G. PAUL

Education.

B.A., Occidental College.

SIMON MACCOBY

History.

M.A., Cambridge University, England.

MRS. HELEN B. KELLER

Education.

Ed.B., University of California, Los Angeles.

WILEY W. MATHER

Economics and Political Science.

B.A. Pomona College.

HOLLIS P. ALLEN

Education.

B.A., Pomona College; M.A., Stanford University.

DRUZILLA MACKEY

English.

M.Pd., Colorado State Teachers College.

CLASS OFFICERS

GENERAL—Nicholl

SENIOR—Denison and Robbins

JUNIOR—Ewer and Hilton

SOPHOMORE—Kirk and Iredell

FRESHMAN—Nicholl, Gibson and Merritt

COMMITTEES OF THE FACULTY

ADMINISTRATION—McCully, Brackett, Ewer, Brooks, Denison, Tileston.

ADMISSION—Nicholl, Williams, Gibson, Gross.

CLASSIFICATION—Robbins, Williams, Hilton, Berry, Iredell, Miss Blaisdell.

COLLEGE LIFE—Nicholl, Gibson, Fairman, Denison, Hilton, Berry, Merritt.

COURSES OF STUDY—McCully, Burgess, Douglass, Tileston, Russell, Miss Blaisdell.

EXECUTIVE—Brackett, Brooks, Burgess, Nicholl.

FACULTY MEETINGS—Brackett, Berry, Burgess.

HONORS—Pitman, Robbins, Frampton, Nixon, Story, Munz.

LIBRARY—Duncan, Kerr, Burgess, Ewing, Lincoln, Jones, Robinson.

PHYSICAL EDUCATION AND HEALTH—Hunter, Nixon, Fairchild, McGownd, Eyre, Sanford.

PUBLICATIONS—Kerr, Bernard, Burgess, Iredell.

PUBLIC EVENTS AND LECTURES—Scott, Howard, Hand, Lyman, Nicholl, Burgess.

RELIGIOUS INTERESTS—Brooks, Lyman, Nicholl, Denison.

ROOMS—Burgess, Nicholl, Kerr.

STUDENT AID—Hand, Nicholl, Gibson, Scott, Cooke.

ADMISSION

GENERAL REQUIREMENTS AND METHODS OF ADMISSION

It is the purpose of Pomona College to do a distinctly and notably high grade of work, thus preparing its graduates for special distinction in whatever later callings they may choose. To this end candidates for admission to any class must present satisfactory evidence of their fitness for college, both in character and in scholarship. Testimonials of character and a letter of honorable dismissal from the last institution attended are required.

It is further advised that applications be made as early as possible, inasmuch as the College cannot under present conditions guarantee the admission of more than two hundred to the freshman class, the trustees having limited the total attendance to eight hundred.

The College welcomes tentative applications from prospective freshmen several years in advance and is glad to offer suggestions from time to time regarding the best preparation for admission. In this respect the good offices of the College are freely at the service of all interested inquirers. Formal applications should be accompanied by a fee of two dollars and fifty cents. A medical examination conducted by an authorized physician, under the direction of the College, is required of all students.

An applicant for admission, immediately upon receipt of notification of acceptance, is required to make a deposit of twenty-five dollars on the tuition of the first semester.

ADMISSION TO FRESHMAN STANDING

Applicants are admitted to freshman standing in any one of three ways, as follows:

First: Examination by the College.

Second: Certificate of the College Entrance Examination Board.

Examinations are given by the College Entrance Examination Board at certain times and places, which may be learned from the Registrar or from principals of secondary schools.

Third: Certificate from approved schools or colleges.

Students from approved schools or colleges are admitted without examination on presentation of a certificate signed by the principal or proper official and showing in detail the requisite completed courses. Certificate blanks obtained from the principal should be filled out and returned as early as possible after the completion of the high school year.

No application is considered which does not show fifteen units in accepted subjects, at least twelve of which are recommended. Special endorsement by the principal must accompany all papers showing non-commended units, such endorsement to include the specific recommendation of the candidate, both as to character and ability, for the undertaking of college work.

Those are matriculated to full standing who at the end of a semester's residence meet the requirements (*see* Matriculation); those who do not meet the requirements are not allowed to matriculate and are enrolled, as in partial standing. No student in partial standing is recommended to college standing in another institution. The final acceptance of entrance units is based upon the character of the work done in class at Pomona College as well as upon the grade of the units presented.

ADMISSION TO ADVANCED STANDING

Students who have sufficient credit from other institutions are admitted to advanced standing on credentials signed by the proper officials and giving full specifications concerning the nature of the courses taken and the time spent in each, together with their rank in each subject. They are assigned hours and credits on the basis of their credentials, but such assignment is provisional until ratified by the Classification Committee. This ratification is not given until after the required semester's residence, at which time the Committee has power to act in adjusting hours or credits, or both, to the qualifications shown.

ADMISSION AS SPECIAL STUDENTS

Mature students, ordinarily only such as are at least twenty-one years of age, may be admitted as special students to courses for which, by ability and preparation, they may be fitted. This provision applies particularly to those equipped for advanced studies in special departments. The privilege of classification as special students is not open to those who seek admission to College in this way as a means of avoiding compliance with the entrance or collegiate requirements laid down for regular students. Special students are not candidates for a degree.

ADMISSION OF GRADUATE STUDENTS

Although Pomona College places its main emphasis upon undergraduate courses, it is equipped in some departments to do more advanced work, and the Committee on Admission is empowered to admit to study in these departments graduates of this and other colleges who are prepared to continue in such work.

A limited number of students, whose records show marked excellence, are accepted as candidates for the Master's degree.

On registration, graduate students indicate whether they are candidates for the Master's degree, or seeking a teacher's certificate, or are students at large.

COURSES REQUIRED FOR ADMISSION TO FRESHMAN
STANDING

In the following outline of courses a "unit" represents a course of study in one subject of high school grade involving five forty-five minute recitations per week or an equivalent for a school year. Laboratory periods should be at least twice the length of recitation periods.

Not less than one unit in any subject is normally accepted, though a half unit may be accepted when accompanied by units for courses in allied subjects.

SPECIFIC REQUIREMENTS—9 UNITS

English, 3 units	Algebra, 1 unit
History, 1 unit	Geometry, 1 unit
One foreign language, 2 units	One laboratory science, ¹ 1 unit

ADDITIONAL REQUIREMENTS—3 UNITS

Selected from the following:

English	Mathematics
History	Laboratory Science ¹
Foreign Language	

ELECTIVE—3 UNITS

It is recommended that these electives be chosen from the subjects specified above, but in view of the importance of other lines of high school work credit is allowed for full units in other courses counted for high school graduation, the acceptance of which is specifically recommended by the principal of the school.

DESCRIPTION OF SUBJECTS

Details regarding subjects accepted for entrance may be secured from the Chairman of the Committee on Admission. In general each unit represents a year's work in the subject, as ordinarily presented in the California high schools.

EXTRA ENTRANCE CREDITS

No college credit is given for subjects taken in High School prior to graduation and not needed for entrance. Such subjects, approved by the Classification Committee, may be accepted as fulfilling in part or in whole some of the Freshman-Sophomore subject requirements but in no case does the satisfaction of these requirements in High School reduce the amount of work required for Junior standing or for graduation. Credit, varying in amount with the individual courses, is granted for graduate work in approved High Schools.

Leads of departments in which students wish to continue laboratory subjects begun in high school may, at their option, require the high school note-books to be submitted as evidence of ability to continue with more advanced work in the department.

REGISTRATION

All students are required to register on one of the regularly announced days of registration preceding the opening of the class work of each semester. A fee of two dollars is charged for later registration and a payment of one dollar for any change in the list of subjects chosen. This latter payment is remitted in the case of new students registering for the first time, provided the changes are made within a week of the opening day of the registration period.

Students are admitted to those courses only for which they are formally registered.

Students are not received later than the last day set for change of schedule.

MATRICULATION

Matriculation implies the meeting of all entrance requirements and the proven ability to carry college work. To this end the standing of all new students is provisional until after they have been in residence for one semester. At that time those are matriculated who have shown themselves in accord with the spirit of the College, who have done a satisfactory quality of work during their semester of residence and whose entrance units are acceptable.

Students are not candidates for a degree nor are they eligible for recommendation to college standing in another institution until they have been matriculated. Students are matriculated only after they have come into full standing. All students must be matriculated before attaining to Junior standing.

ELECTION OF COURSES

On or before the first Saturday in January after the Christmas recess, and the first Saturday in June, all resident students must fill out a schedule listing their choice of subjects for the following semester.

Changes from this schedule may be made upon the payment of a fee of one dollar. Failure to prepare such a schedule at the appointed time subjects the student to a fee of two dollars. Students may not elect less than twelve hours of work without the special permission of the Classification Committee.

CURRICULUM

DEGREE OF BACHELOR OF ARTS

The courses of study offered lead to the degree of Bachelor of Arts under the following hour and credit requirements.

HOURLY REQUIREMENTS

One hundred and twenty-six hours of work are required for graduation. An "hour" consists of one recitation or lecture period, or one laboratory period a week for one semester. A recitation or lecture period covers fifty minutes; a laboratory period covers, in general, the time of three such periods. In order to complete the course in four years one must take an average of fifteen hours of academic work per semester throughout the four years.

CREDIT REQUIREMENTS

In order to graduate a student must not only earn a certain number of hours, but also attain an average of at least C grade in those hours. To this end a certain number of credits is ascribed to each grade as a basis of determining average grade. The scale is so adjusted that the number of credits required for graduation coincides with the number of hours. Details regarding credits are published in *The Manual of Procedure*.

CHOICE OF SUBJECTS

In the selection of his work the student is given a large range. The only limitations are such as will insure to him, on the one hand, the breadth of view which may be gained by an introductory study of each of the great realms of knowledge; and, on the other, that concentration along some chosen line of work which shall develop power of thought and an actual fund of knowledge in some particular field.

To this end there are certain subject requirements as stated below. The College would emphasize also the advisability of selecting work representing each of the following broad groups of subjects:

1. Language, Literature and Fine Arts.
2. Mathematics, Physical and Biological Sciences.
3. History, Social Sciences and Philosophy.

SUBJECT REQUIREMENTS

Foreign Language¹—12 hours, Freshman and Sophomore years.

Economics, History or Political Science—6 hours, Sophomore year.

Hygiene —2 hours, Freshman or Sophomore year, unless an equivalent is offered.

Mathematics or Science—6 hours, Freshman year.

Mathematics or Science—6 hours, Sophomore year, except for those who enter with credit for three recommended units in one of these subjects.

Physical Education—4 hours in Freshman and Sophomore years and 2 hours in Junior and Senior years for those not taking Military Training. For those taking Military Training the requirement is 1 hour per year throughout the course.

Economics, History or Political Science²—6 hours, Junior or Senior year, unless 3 recommended units of History were presented for entrance.

Philosophy, Psychology or Religion²—9 hours, Sophomore, Junior or Senior year.

In addition to these requirements, there is a general requirement of 36 hours of C and D academic work, of which at least 12 must be D work.

¹See foot-notes 3 and 4, page 40.

²May be all in one department or distributed among these departments.

DEPARTMENTAL MAJOR

Students who have shown special ability in one line of work may, with the consent of the head of the department, enroll for a departmental major. This major includes at least 18 C or D hours in the department chosen, together with certain courses in allied subjects, and usually a reading knowledge of French and German. Six of these 18 hours must be D hours and at least 6 must be taken in the Senior year. The student plans his work in consultation with the head of the department concerned. Certain prerequisites, differing with the subject chosen, are indicated for each major. A final examination or thesis or both may be required.

Students who desire to become candidates for a departmental major should indicate such intention to the head of the department as early as possible.

The student who completes a departmental major receives in addition to his diploma the special commendation of the department.

READING FOR HONORS

In order to encourage individual initiative opportunity is given to students at the beginning of their Junior year to "read for honors." Students accepted by the Faculty as candidates for this course are relieved of approximately six hours of curricular work in the Junior year and twelve hours in the Senior year. This time freed from curricular work, together frequently with some of the vacation periods, is devoted to a wide range of reading in the student's major department and in allied fields under the guidance of a member of the department concerned. The reading may cover a greater range than any of the courses offered in the department and the student is expected to get a wider and deeper knowledge of the field than would be possible by the study of individual courses. His grasp of the entire subject is tested by a series of examinations at the end of his Senior year. The power shown by him in these examinations may win for him

the bachelor's degree "with honors" or "with high honors" the field concerned.

COURSES IN MUSIC AND ART

The College is equipped to offer unusual privileges in Departments of Art and of Theoretical and Applied Music. The influence of the College is greatly enriched by the contributions made through these departments to the cultural life of the institution as a whole. In Bridges Hall the great music of the world are heard, all students being supplied with admission to their concerts. Great enlargement of life comes through intimate acquaintance with these arts, both in theoretical and applied forms, and the College urges all regular students to include them, at least to some degree, in their cultural courses, credit toward the B.A. degree being granted on conditions specified under the detailed description of the courses.

TEACHERS' CERTIFICATES

The College meets the requirements of the State Board of Education for the State Certificate, enabling those recommended by the College to teach in the public elementary, junior high and secondary schools of the State of California.

SUMMER SESSION

The summer session presents a series of selected courses from the college curriculum for the benefit of undergraduate and graduate students. It provides in addition an enlarged program in the Department of Education for the special benefit of teachers who wish to secure the various types of certificates for teaching in California.

In the Laguna Beach division of the summer session, the Department of Zoology conducts work under especially fortunate conditions at the Laguna Beach Marine Laboratory, Professor W. Hilton, Director.

MUSIC AND DRAMA COURSE

In order to insure to the entire student body the opportunity of hearing and seeing the great artists of the day whose public appearance is usually confined to the larger cities, the College produces each year a group of the most distinguished masters in the various departments of achievement. For the concerts and other entertainments thus afforded an annual ticket is furnished to every student.

DEGREE OF MASTER OF ARTS

The work for the Master's Degree requires full time for at least one academic year. It may be all in one department or be divided between two closely allied departments, a major and a minor. Thesis on some piece of research and oral examination in the field covered in the work for the degree are required. A student expecting to register for such work must first consult the head of the department in which he expects to major and plan his program of study. He will then submit this plan to the chairman of the Committee on Graduate Study before completing registration.

The degree of Master of Arts may be taken *in ordinary* or *with honors*. The degree *in ordinary* consists of a program of regular work, thesis, and final oral examination. A candidate for the degree *with honors* is relieved of curricular requirements and engages in such personal study and research as will lead him to a broader and more complete understanding of the field of his choice than that expected of candidates *in ordinary*. He must also prepare a thesis and at the end of his work present himself for written examinations in his minor and major departments and an oral examination covering the field of his thesis.

Further information concerning graduate work may be obtained from the chairman of the Committee on Graduate Study.

SCHOOL OF EDUCATION

Formally recognized by the California State Board of Edu-

cation the school is designed to train teachers and school administrators with the same thoroughness that has characterized Pomona undergraduate standards. Arrangements with the nearby schools have opened an unusual opportunity for practice teaching under the supervision of skilled teachers. The special courses in education, conducted by masters of the subjects, offer rich opportunities beyond the mere technical requirements of State certification laws.

Work in the School of Education looks to the securing of certificates in California and surrounding states as follows:

I. General Secondary or High School Certificates.

II. Junior High School Certificates.

III. Special Secondary Certificates.

Manual and Fine Arts Type.

Music Type.

Physical Education Type.

IV. General Elementary Certificates.

V. Special Elementary Certificates of the three types listed above.

At least Junior standing in Pomona College is required for enrollment in the School of Education, though the elementary required courses for special certificates may be taken in Freshman and Sophomore years.

Graduate work, looking to High School certificates, requires the Bachelor's degree from an approved college.

Graduates of approved Normal Schools and Junior Colleges are admitted to the courses leading to all certificates.

Graduates of Junior Colleges, looking to teaching in the Elementary Schools of California, can secure their elementary certificates with their B.A., and have all work count directly toward the requirements for High School certificates without loss.

LECTURE FOUNDATIONS

THE JOSEPH H. JOHNSON FOUNDATION

The Joseph H. Johnson Foundation, liberally endowed by Miss Ellen B. Scripps, provides an annual income for the purpose of furnishing to the College for a protracted stay and intimate participation in college life notable educators from other institutions. By this means such educators are annually in residence in Pomona College. The opportunity of intimate contact with distinguished instructors thus afforded to undergraduates is a unique privilege, often surpassing the privileges of the classroom of the institution from which these educators come.

THE HENRY D. PORTER FOUNDATION

The Henry D. Porter Foundation, named in honor of the late Rev. Henry D. Porter, for many years a missionary in China, secures to the institution annually, the extended stay of some prominent worker in the field of Christian Missions. The lecturer upon this foundation commonly shares in the regular classroom work related to the history, geography, politics or religion of the region in which he has been actively at work. His vivid representation of the missionary life is one of the most stimulating features in the spiritual program of the College.

THE ARTHUR O. CLARK FOUNDATION

The Arthur O. Clark Foundation, established by Mr. Arthur O. Clark, makes it possible for the College to offer each year a lecture or course of lectures in the general field of religious education.

OUTLINE OF WORK BY YEARS

An outline of the work which leads to graduation is here given by years. A more complete description of each course may be found under *Courses of Instruction*.

Each "hour" represents one recitation or laboratory period per week for one semester.

FRESHMAN YEAR

Hygiene ¹	2 semester hours
Physical Education ²	2 semester hours
Foreign Language ³	6 semester hours
Mathematics or Science	6 semester hours
Elective	Not less than 12 nor more than 20 semester hours

SOPHOMORE YEAR

Physical Education ²	2 semester hours
Foreign Language ⁴	6 semester hours
Mathematics or Science ⁵	6 semester hours
History, Economics or Political Science	6 semester hours
Elective	Not less than 12 nor more than 18 semester hours

JUNIOR AND SENIOR YEARS

Physical Education	1 semester hour each
Economics, History or Political Science ⁶	6 semester hours
Philosophy, Psychology or Religion ⁷	6-9 semester hours
Elective	Not less than 28 semester hours each

Should include any course requirements not already completed and enough advanced C and D courses to complete the graduation requirement of 36 hours of C and D work, of which 12 must be D.

¹Must be taken in Freshman or Sophomore year, unless the equivalent is offered.

²One hour required of those taking Military Training.

³By passing a proficiency test, a course in foreign literature or English may be substituted for the language requirement.

⁴Unless 3 units of one foreign language or 4 units or more of two or more foreign languages were presented for entrance, in which case only one year of foreign language is required, provided this one year is a continuation of foreign language taken in high school.

⁵Unless 3 recommended units of Mathematics or 3 of Laboratory Science were presented for entrance.

⁶Unless 3 recommended units of History were presented for entrance.

⁷May be taken in Sophomore, Junior, or Senior year.

COURSES OF INSTRUCTION

DESIGNATION OF COURSES

The letter preceding the number in the designation of a course indicates in general its grade. Elementary courses, designated by A (as English A1) are given in Freshman or sophomore year; B courses are either those which follow the A courses of earlier years or the more advanced beginning courses; C and D courses are advanced courses given to Juniors and Seniors, D courses being the more difficult. The natural sequence of courses is from A to B, B to C, and C to D, and a student may not enter a C or D course without previous work in the same line.

Courses with numbers below 100 are underclass courses; those numbered from 100 to 199 are for Juniors and Seniors; those numbered over 200 are for graduate students. Properly qualified Seniors may be enrolled in graduate courses with the consent of the instructor.

Any course may be withdrawn if the enrollment is less than five.

In departments where one-hour courses are offered, two such courses should be completed to secure the counting of hours and credits towards graduation.

When courses in different semesters have the same general number and are connected by a hyphen thus, B1a-B1b, they cover a common subject and the entire sequence should be taken. If, however, they are connected by a comma, thus, B1a, B1b, although the course extends throughout the year, independent credit is given for the work of the first semester and the first course may be followed by some allied subject instead of the next course in the sequence. Entrance to the second semester course by permission of the instructor.

All courses are three hours each unless otherwise designated.

Roman numerals show the periods of recitations. Two courses with the same Roman numerals cannot be taken contemporaneously unless the numerals are preceded by different letters (as *M* or *W*), showing that the classes meet on different days of the group.

	7:30	8:30	9:50	10:50	1:15	2:15	3:15
<i>MF</i>	I	III	V	VII	IX	XI	XIII
<i>TTh</i>	II	IV	VI	VIII	X	XII	XIV
			10:15	11:15			
<i>W</i>	I	III	V	VII	IX	XI	XIII
			9:30	10:30			
<i>S</i>	II	IV	VI	VIII			

Hours to be arranged—*A*.

If a letter precedes the numeral, the class meets only on the day of the group.

ART

A fee of \$18 is charged for each hour of credit except courses B100, B105a, B105b, C111a, C111b, D219a, D219b.

A1a-A1b. Design.

BEG

This course for beginners includes a study of the elements of design in primitive art and historic ornament, and their application to various types of original commercial design. Knowledge of the theory of perspective and practice in out-door sketching are provided. 2 hours. *MF, III*.

B11a-B11b. Drawing and Design.

BEG

Drawing from still life and cast in charcoal is combined in the course with work in water color and tempera. Pictorial composition is studied as applied to illustration in black and white and color. 2 hours. *WF, V*.

B100. Art Interpretation.

BEG

A course for students wishing to know how art applies to everyone in everyday life. A study of art in the home and the community. 2 hours. *MW, VII*.

B105a-B105b. History of Painting.

BEG

A brief study of the dominant characteristics of the historic schools of painting. 2 hours. *MW, XI*.

C111a, C111b. History and Appreciation of Art **PIJOAN**

Study of the historical development of art with especial attention to national genius and expression. 2 hours. *MW, III.*

C120a-C120b. Advanced Drawing and Design. **BEGGS**

A course in still life painting in oil. The composition of easel pictures and the design of mural paintings are considered. Problems involving the theory of the design of mosaic, stained glass and fresco are also given. 2 hours. *WF, IX.*

D219a-D219b. Teaching of Art. **BEGGS**

A general course in methods for art teachers in public schools. Principles of design, color and drawing, demonstrated by problems. 1 hour. *M, V.*

ASTRONOMY**B1a-B1b. General Astronomy.** **BRACKETT**

A non-mathematical course dealing with the general facts of astronomy, including regular observations at the Observatory; designed for students who have only elementary preparation in physics or chemistry and mathematics. Classroom, two hours a week; lecture and observatory, amounting to one period a week. Laboratory fee, \$3.00 per semester. *VII.*

C101. Essentials of Astronomy. **BRACKETT**

A special course in the essentials of the subject, designed for students who have a working knowledge of analytic geometry and calculus and of the more important principles of physical science. Classroom, two hours a week; lecture and observatory amounting to one period a week. Laboratory fee, \$3.00. First semester. *IV.*

C102. Cosmogony. **BRACKETT**

Systems of cosmogony and evolution. Kantian, Laplacian and other historical theories compared with modern hypotheses based upon present knowledge of the constitution of the stars and their motions. Prerequisite: Astronomy B1 or C101. Second semester. *IV.*

C103a. The Sun. **BRACKETT**

A more detailed study of the sun and its constitution, including observations with the 40-foot horizontal telescope. Laboratory fee, \$5.00. First semester. *VIII.*

C103b. Variable Stars and Binaries. **BRACKETT**

Systematic observational study of certain variable and binary stars, with construction of light curves, and discussion of their classification and origin. Laboratory fee, \$5.00. Second semester. *VIII.*

D104. Theoretical and Practical Astronomy. BRACKETT

Some phase of theoretical or practical astronomy, such as the determination of time, latitude, and longitude. Classroom one hour a week; lecture and observatory amounting to two periods a week. First semester. Fee, \$5.00. *A*.

D105. Celestial Mechanics. BRACKETT

Applications of the principles of mechanics to the motions of heavenly bodies, with special problems such as the computation of orbits or the determination of the circumstances of eclipses. Second semester. *A*.

D106a-D106b. Astrophysics. BRACKETT

A practical course in the spectrographic study of the sun and stars. Laboratory fee, \$8.00 per semester.

D230. Seminar in Astronomy. BRACKETT

Investigation in a particular field such as binaries, variable stars, or in some phase of Astrophysics. Each semester. 1-4 hours. May be repeated for credit. *A*.

BIOLOGY**A1a-A1b. General Biology. HILTON, MUNZ and ASSISTANTS**

A general course for either those who intend to take further biological work or those who wish but one year. It may be taken for credit only by students who have had no high school biology, botany or zoology. Class, *MW, VII*; laboratory, *MTWTh*, or *F, 1:15-4:10*. Laboratory fee, \$6.00 each.

C105. Bacteriology. MUNZ

General study of important bacteria, methods of culture and study, and importance in disease and agriculture. Prerequisite: one year of biological work. First semester. Class, *W*, laboratory, *WF, 1:15-4:10*. Laboratory fee, \$8.00. Breakage deposit, \$5.00. Alternates with C107. (*Omitted in 1927-1928*)

C107. Genetics. MUNZ

Course covering modern developments in the study of heredity and evolution and the application in plant and animal breeding and in improvement of mankind. Prerequisite: one year of biological work. First semester. Class, *MW, I*; laboratory, *W, 1:15-4:10*. Laboratory fee, \$5.00. Alternates with C105.

C108. Bionomics. HILTON

A course in the history of biological progress, including modern problems in evolution, heredity and eugenics. It is open to Juniors or Seniors who have had a year of biological work. May be taken with Zoology D131 for three hours. Second semester. 2 hours. *MW, I*.

219. Teaching of Biological Sciences. HUNTER

For those who expect to teach Botany, Zoology or Biology. Discussions of teaching methods in the biological sciences together with a consideration of material and equipment needed for such work. Second semester. 2 hours. *TTh, II.*

BOTANY**21a-B21b. General Botany. MUNZ**

A general treatment of structure and life-processes of plants, giving a picture of plants as living organisms. A survey of the plant kingdom, giving the steps in the evolution series. Both laboratory and field work. Prerequisite: Biology A1 or high school biology or botany or zoology. Class, *TTh, VIII*; laboratory, *Th, 1:15-4:10*. Laboratory fee, \$6.00 a semester.

121. Plant Histology and Anatomy. MUNZ

Study of plant anatomy with special reference to the vascular and other tissues from the evolutionary point of view. Prerequisite: General Botany. First semester. Class *TTh, II*; laboratory, *T, 1:15-4:10*. Laboratory fee, \$5.00. Alternates with C123.

123. Plant Physiology. MUNZ

Nutrition and life-processes in the plant; a discussion of such topics as absorption, conduction, transpiration, photosynthesis, respiration, fermentation, etc. A foundation course for work in horticulture and agriculture. Prerequisite: General Botany. First semester. Class *T, II*; laboratory, *TTh, 1:15-4:10*. Laboratory fee, \$8.00. Breakage deposit, \$5.00. Alternates with C121. (*Omitted in 1927-1928.*)

126. Taxonomy. MUNZ

Study of our local flora and of classification methods. Much field work, with trips to coast, mountains and desert for study of plants in their native conditions. Prerequisite: General Botany. Second semester. Class, *M, I*; laboratory, *MW, 1:15-4:10*. Laboratory fee, \$7.00. Alternates with D128.

128. Comparative Morphology. MUNZ

Comparative morphology of green plants, especially of the Bryophytes and Pteridophytes. Prerequisite: General Botany. Second semester. Class, *MW, I*; laboratory, *M, 1:15-4:10*. Laboratory fee, \$7.00. Alternates with D126. (*Omitted in 1927-1928.*)

131. Botanical Problems. MUNZ

Special work, largely individual, and primarily for majors in the department. Each semester. 1 to 3 hours. May be repeated for credit. Permission of instructor necessary for registration. Laboratory fee, \$2.00 for each hour of credit.

D231. Research.

MUNZ

Open only to graduates. Each semester. 2 to 6 hours. May be repeated for credit. Laboratory fee, \$2.00 for each hour of credit.

CHEMISTRY**A1a, A1b. A Survey of Chemical Science.**

ROBINSON

Emphasis placed on the historical development of the non-mathematical, philosophical concepts of chemistry, and the relation of both chemical philosophy and applied chemistry to human affairs. Adapted to the needs of students who desire science as a cultural asset. Intended especially for those who are planning no further work in chemistry. No laboratory. *III* Fee, \$2.00 each to defray expenses of lecture demonstrations

B3a, B3b. Inorganic and Elementary Theoretical Chemistry.

GROSS

Prerequisites: Entrance Chemistry or A1b, or consent of instructor. Descriptive chemistry according to the general plan of the periodic system, including also the development of modern ideas of electrons, atoms, molecules, and ions, and such theoretical aspects of physical chemistry as the gas law and the properties of matter considered on a partially mathematical basis. A prerequisite to all more advanced courses in chemistry. Class, *TTh, II*. Laboratory, *T or Th, 1:15-4:10*. Laboratory fee, \$6.00 each.

B6. Qualitative Analysis.

TRUESDAIL

Prerequisite: Chemistry B3, (or, by consent of the instructor may be accompanied by Chemistry B3). A lecture and laboratory course designed to give the student a knowledge of the fundamentals underlying the properties and uses of the metallic elements, as well as the systematic qualitative analysis of the more common metals and acids. First semester. Class, *Th VIII*; laboratory, two periods; *TTh, or WF, 1:15-4:10*. Laboratory fee, \$10.00.

B7. Elementary Quantitative Analysis.

TRUESDAIL

To be preceded or accompanied by Chemistry B3b and B6. Designed to give the student training in some of the fundamental and simpler methods of both volumetric and gravimetric analysis. Class period used to discuss the principles and problems involved in quantitative analysis. Each semester. Class, *T VIII*; laboratory, two periods: *TTh or WF, 1:15-4:10*. Laboratory fee, \$10.00.

C110a, C110b. Organic Chemistry.

ROBINSON

Prerequisite: Chemistry B3b, and preceded or accompanied by Chemistry B6. A study of the compounds of carbon, including

in the first semester, a survey of the principal classes of carbon compounds and their characteristics; and in the second semester, a study of synthetical methods and of the atomic forces at work in the reactions of the carbon compounds. Numerous biological and industrial applications are cited. Class, VII; laboratory, 1:15-4:10, *T, F*, 4 or 5 hours. Laboratory fee, 1 hour, \$6.00; 2 hours, \$10.00 each semester.

C11. Advanced Quantitative Analysis. TRUESDAIL

A continuation of B 7, designed to give the student a more comprehensive course in the theory and practice of volumetric and gravimetric analysis. Second semester. Class, *Th, VIII*; laboratory, two periods; *TTh or WF*, 1:15-4:10. Laboratory fee, \$10.00.

C13. Special Quantitative Methods. GROSS

Prerequisite: Chemistry C111. First semester. Three laboratory periods, *A*, from which time is taken for conferences. Laboratory fee, \$12.00.

C14. Advanced Organic Chemistry. ROBINSON

Prerequisite: Chemistry C110b. Devised to give additional experience and insight into the laboratory methods of organic chemistry, either preparative or analytical. Laboratory and conference, *A*. Each semester, 2 or 3 hours. May be repeated for credit. Laboratory fee, \$5.00 per hour.

C15a, D115b. Biological Chemistry. TRUESDAIL

Prerequisites: Biology, Physics, Calculus, and Chemistry B7, and C110. By consent of the instructor, some of these prerequisites may in special cases be waived. Lectures and reports on the chemistry of carbohydrates, fats, proteins, body tissues, blood, secretions, putrefaction and the physiological processes such as digestion, absorption and assimilation of food, general enzyme action, metabolism and the fundamental principles of nutrition. The laboratory work consists of qualitative and quantitative experiments on the lecture material. Class, *WF, II*; laboratory, *F*, 1:15-4:10. Laboratory fee, \$6.00 each.

C19a, D119b. Physical Chemistry. GROSS

Prerequisites: Differential and Integral Calculus, Chemistry B7 and a C course in either Quantitative Analysis or Physics. A general review of elementary physical chemistry, followed by an intensive study of thermodynamics and its application to certain topics in the study of solutions, ionized solutes, equilibria, phase rule, thermochemistry and electrochemistry. Class, *TTh, VIII*; laboratory, 1:15-4:10, *T*. Laboratory fee, \$8.00 each.

D21a, D121b. Chemistry Conference. THE STAFF

A study of chemical history and modern chemical literature, with frequent oral and written reports. One hour each. Class, *A*.

D201a, D201b. Research in Chemistry.

THE STAF

This course is included in the chemistry curriculum to give the advanced student the opportunity to become acquainted with the methods used in attacking new problems in the field of chemistry. Problems in Physical, Analytical, Organic, Biological Chemistry may be undertaken with the consent of the instructor under whom the student wishes to work. 2 hours. *A.* Each semester. Fees, \$3.00 per hour.

D219. The Teaching of Chemistry.

GRO

Second semester. 2 hours, *A.* Prerequisite: Consent of instructor.

ECONOMICS AND SOCIOLOGY

A reading knowledge of French or German is required of students majoring in Economics or Sociology.

B1a-B1b. Elements of Economics.

DUNCA

A basic course in the general principles of Economics. Required for students expecting to complete an Economics major. This course or Economics B3 required before taking other courses in Economics. Two sections. *I, III.*

B3. Principles of Economics.

SIMO

A rapid introductory survey of economic theory. First semester. *II.*

B29. Statistical Methods.

SIMO

Theory and method, including averages, frequency distribution, dispersion, correlation, and graphical methods. Second semester. *S, II.* Laboratory periods, *W and F.* 1:15-4:10. Laboratory fee, \$4.00.

B31a-B31b. Accounting.

THOMSC

MF, VII and M or T, 1:15-4:10

C105. Money and Banking.

SIMO

History and principles of Money and Banking, with particular attention to recent developments in the field of banking. First semester. *VI.*

C106. Public Finance.

DUNCA

Public expenditures, public revenues, public debt, and financial administration, with special attention to the theory and practice of taxation. Second semester. *IV.*

C108. Problems of Labor.

KIE

A study of labor organizations; labor legislation; scientific management; methods of promoting industrial peace. Second semester. *V.*

C09. Transportation Problems.**SIMON**

An historical and analytical study of transportation principles and problems, with particular reference to railway transportation in the United States. Second semester. *VI.*

C10. Corporation Finance.**DUNCAN**

Principles underlying the promotion, financial structure and control, failure and reorganization of corporate enterprise, including some study of cooperative organizations. It is recommended that a course in accounting precede this course. First semester. *IV.*

C11. Investments.**SIMON**

A study of the fields of speculation and investment; problems of investment and analysis. Economics C110 prerequisite. Second semester. *VIII.*

C14. Elements of Marketing.**SIMON**

An analysis of the institutions and methods employed in the distribution of agricultural products and manufactured articles. First semester. *I.*

C16. Agricultural Economics.**BURGESS**

A study of the application of economic principles to certain problems of agriculture, such as land tenure, transport, labor, marketing and prices. Second semester. *I.*

C17. Economic Problems of the Orient.**DUNCAN**

A study of the economic, social and political problems of the Far East with special reference to current conditions in China. Enrollment restricted to those expecting to complete an Economics or Sociology major and to others by special consent of instructor. First semester. *VII.*

C19. Monopolies and Trusts.**BURGESS**

A study of the economic and legal status of monopolies. First semester. *VIII.*

D25a-D125b. Economic and Social History of the United States.**PITMAN**

(See History.)

D10. Seminar in Economics.**DUNCAN**

The special topics studied vary from year to year, and will include critical analysis of underlying economic theory and its development. Required for students expecting to complete an Economics major. Second semester. 2 hours. *A.*

B3a-B21b. Elements of Sociology.**KIRK**

The social population; social forces; social processes; social products; sociological principles. Two sections, *IV* and *VI.*

C125. The Control of Poverty.

KIF

*(Omitted in 1927-1928.)***D112. Social Psychology.**

EWE

*(See Psychology D112.)***C127. Criminology.**

KIF

The nature and evolution of crime; criminal traits and type; the origin and evolution of punishment; crime and social progress. First semester. *V*.

D227. Advanced Studies in Social Economics.

KIF

Designed to meet the needs of students who are interested in the social sciences. First semester. *III*.

D228. Seminar in Social Economics.

KIF

Students will carry on special studies and investigations under the direction of the instructor. Open only to students who have shown in D227 capacity for doing this type of individual work. Second semester. *III*.

EDUCATION

With the close of the collegiate year 1927-1928, there is a possibility that training for the elementary certificates will be discontinued in Pomona College. Students who have in mind to secure certification for teaching after that date are strongly advised to elect courses leading to the secondary certificates.

C103. Principles and Problems of American Education.

DOUGLA

The purpose of this course is to introduce the student to the most important problems in American Education and to acquaint him with certain approaches to the solution of the problems. It should precede other courses in Education excepting C107. First semester. *II* and *V*.

C106. Principles of Elementary Education.

DOUGLA

The aims, organization and curriculum of the elementary school as a part of the American system of education. Students qualifying for the elementary credential should enroll in this course before enrolling in Education D210. Second semester. *VI*.

C107. Educational Psychology.

EWE

Practical applications of psychology to education. The inheritance of the learner; principal features of the learning process; principles of educational discipline; methods of mental measurement. Both semesters. First semester. *VIII*; second semester. *V*.

119. Classroom Methods and Management. DOUGLASS

This course deals with the technique of classroom procedure. It is adapted especially to the needs of prospective secondary-school teachers. 2 hours. Second semester. *TTh, II.*

130. Public Education in California. NICHOLL

A course in public education in California including the organization and administration of the California school system. 2 hours. First semester. *WF, I.*

104a, D104b. History of Education. NICHOLL

The development of educational theory and practice from the Greek period to the present. The second semester is devoted to a discussion of modern problems and principles growing out of historical changes, with special reference to the development of education in the United States. 2 hours. *WF, VII.*

108. Education for Citizenship. NICHOLL

A course presented in such a way as to lead the teacher to appreciate the social purpose of high school subjects and to make instruction in all classes contribute to the training of youth for good citizenship. 2 hours. Second semester. *WF, I.*

114. The Junior High School. DOUGLASS

A study of the objectives, organization, curriculum, and methods of instruction of the junior high school. 2 hours. Second semester. *Th, 4:15-6:10.*

117. The Measurement of Intelligence. WILLIAMS

A study of the principles and methods of intelligence testing with special emphasis upon the methods of giving the Stanford Revision of the Binet Tests. Second semester. *VIII.*

125. Mental and Physical Hygiene in Education. EYRE

A study of the development of the child mentally, physically and morally. Second semester. *VIII.*

206. The Principal and His School. DOUGLASS

A course in the administration of secondary schools for principals, supervisors and administrative officers. Prerequisite: Education D215, or the consent of the instructor. Alternates with Education D216. (*Omitted in 1927-1928.*)

210. Practice Teaching. DOUGLASS

A course in actual practice teaching, supervised, including regular conferences with the supervisor. 2 to 4 hours. *A. See also courses D219 as listed in other departments, which are teachers' courses.*

D215. Principles of Secondary Education.

DOUGLAS

The factors and principles which underlie the theory and practice of secondary education; a general course for teachers and officers of secondary schools. 2 hours. First semester. *II*

D216. The Secondary School Curriculum.

DOUGLAS

A critical analysis of recent advances in the development of the secondary school program of study, with particular reference to the reports of important committees and to recent literature on curriculum making. Prerequisite: Education D215, or the consent of the instructor. 2 hours. Alternates with Education D206. Second semester. *T, 4:15-6:05.*

D217. Seminar in Education.

DOUGLASS and GIBSON

Stress is placed upon current educational problems and literature. Students consider individual problems. 2 hours. May be repeated for credit. First semester. *T, 4:15-6:10.* Second semester. *W, 4:15-6:10.*

ENGINEERING SCIENCE**A2a, A2b. Engineering Drawing.**

BEGGS and TAYLOR

A beginning course in mechanical drawing. Includes lettering, use of instruments, orthographic projections, intersection of solids, development of surfaces and the making and interpreting of working drawings. First semester, Beggs; second semester, Taylor. 2 hours. *TTh, 1:15-4:10.*

B3a, B3b. Engineering Drawing.

BEGGS and TAYLOR

An advanced course. Treats of orthographic, isometric and perspective projections, shades and shadows, machine part draughting, office practice and standards. Prerequisite: Engineering A2 or its equivalent. First semester, Beggs; second semester, Taylor. 2 hours. *TTh, 1:15-4:10.*

C112. Engineering Drawing.

TAYLOR

A laboratory course in design of cams, gears, machine parts and simple trusses. Two 3-hour periods a week. 2 hours credit. Second semester. *TTh, 1:15-4:10.*

D113a, D113b. Analytic Mechanics.

TAYLOR

A study of force and motion with special reference to engineering problems and structures. Prerequisite: A knowledge of Calculus. *VII. (Omitted in 1927-1928; will be given in 1928-1929.)*

ENGLISH

Writing and Speech are emphasized features of all lower division courses.

A1a-A1b. English: An Introductory Course.

THE DEPARTMENTAL STAFF

The fundamental principles of literary criticism and interpretation.

tion together with reading and study of specimens of the more important literary types; instruction and practice in writing and speech. 4 hours. In case of Freshmen and Sophomores this course is prerequisite for all B courses in the department. (After 1927-1928 it will be prerequisite for all other departmental courses). Men: *WF, III*; section meetings at *II*. Women: *WF, V*; section meetings at *VI*.

4. Shakespeare.

FRAMPTON

A general course, including some consideration of Shakespeare's life and the conditions under which he lived and wrote, the chief stress falling, however, on a study of the greater plays with a view to enabling the student to read Shakespeare with sympathetic appreciation. Prerequisite: English A1 in case of Freshmen and Sophomores. Second semester. *V*.

5a, B5b. Nineteenth Century Literature.

LINCOLN

Wide reading in the literature of the period, in poetry and essays especially, with lectures on its significance as an expression and interpretation of general English life. Prerequisite: English A1 in case of Freshmen and Sophomores. *III*.

7a, B7b. Types of Drama.

DAVIS

Studies in the great periods of dramatic achievement from the classic Greek to the present day with as extensive reading as time will permit. Prerequisite: English A1 in case of Freshmen and Sophomores. Offered to men and women in alternation; in 1927-1928 registration is limited to men. *VII*.

9a, B9b. Types of Prose Fiction.

HARRIS

Studies in the various phases, as tale, romance, novel and short-story, through which fiction writing has passed from medieval times to our own. Prerequisite: English A1 in case of Freshmen and Sophomores. Offered to men and women in alternation; in 1927-1928 registration is limited to women. *IX*.

11. English Composition.

WOOD

A general course with emphasis on expository writing. Limited to students who have completed at least one course in English. First semester, *I*; second semester, *VII*.

102. Chaucer.

LINCOLN

A study of Chaucer as the outstanding narrative and dramatic poet of the transition from the medieval to the modern world. Offered to men and women in alternation; in 1927-1928 registration is limited to women. Second semester. *VII*.

103a, C103b. Literature of the Eighteenth Century.

MCCULLY

The neo-classical literature of Dryden, Pope and their contemporaries; the periodical essayists; sentimentalism, realism

and romanticism; the eighteenth century drama; the beginning of the English novel; the spread of the romantic movement in England and on the Continent. Permission of the instructor must be secured before registration for this course. *II.*

C105a, C105b. American Literature.

LINCOLN

The literature of the United States, with emphasis on its expression of our national characteristics and sentiments. Offered to men and women in alternation; in 1927-1928 registration is limited to men. *IV.*

C107. Contemporary Poetry.

LINCOLN

A course in the forms and content of contemporary poetry with directed practice in the writing of verse. First semester. *VII.*

C111. Short-Story Writing.

FRAMPTON

Practice in supervised writing of short-stories. Study of contemporary short-stories. First semester. *V.*

C112. The Essay.

HARRIS

A writing course with some study of recent essay literature. Second semester. *V.*

C119a, C119b. Early English.

DAVIS

The elements of Anglo-Saxon and Middle English studied for their light on the problems of present-day usage. Required of those seeking teacher's certification in English. Acceptable for graduate credit only when accompanied by an approved linguistic thesis. Offered in alternation with D121. *III.*

D121a-D121b. Modern English.

DAVIS

The history of the English language considered with attention especially to the development of modern grammar and diction studies in linguistic forms and usage as found in representative English and American writings of today. Required of those seeking teacher's certification in English. Offered in alternation with C119. (*Omitted in 1927-1928.*)

D123a, D123b. History of English Drama to 1642.

FRAMPTON

Lectures and readings tracing the historical development of English drama from its beginning to its flowering in the work of Shakespeare and his contemporaries; thence through its decline to the closing of the theatres. *VII.*

D125a, D125b. Shakespeare.

MCCULLOUGH

A study of Shakespeare's complete works. *I.*

D127. Literary Criticism.

FRAMPTON

An examination of the bases of literary criticism; studies of outstanding modern critics; frequent practice in supervised critical writing. First semester. *T, X and XII, and F, IX.*

D28. Dramatic Writing.**PENCE**

Studies in the technique of play construction together with practice in dramatic composition. Second semester. *Th. XII* and *XIV*; one other hour *A*.

D215a, D215b. The Development of English Literature**THE DEPARTMENTAL STAFF**

Lectures, reading, papers and seminar reports directed toward a synthesis on the student's part of his work in the field of literature and allied subjects; the course culminates in the comprehensive final examination required of departmental majors and of candidates for the M.A. degree in English. Prerequisite: English C103 or an equivalent. *M, XI, and W, XI and XIII.*

D218. The Great Victorians.**MCCULLY**

The "major prophets," Carlyle, Ruskin and Arnold, receive chief emphasis. The work of other eminent Victorians is investigated and discussed in relation to these central figures and to the general social life of the period. Prerequisite: English C103 or an equivalent. Second semester. (*Omitted in 1927-1928.*)

D230. Composition Seminar.**FRAMPTON**

Supervised practice in all forms of creative writing. Study of matters and fields of literary interest. Second semester. *T, X and XII, and F, IX.*

FRENCH**A1a-A1b. Elementary.****JONES, BISSIRI, BAGSTAD**

Stress laid on accurate pronunciation, essentials of grammar, translation of French prose; dictation, conversation and easy composition. Four sections. *II, III, VII.*

Ba-B3b. French Novel of the Nineteenth Century.**BISSIRI, HUSSON**

A study of the prose writers of the nineteenth century. Selections from representative authors; Chateaubriand, Hugo, Balzac, Loti, Sand, Coppee. Composition, summaries and reports in French. Four sections. *I, II, IV, VI.*

Ba-B4b. Grammatical Analysis.**BISSIRI**

An intensive study of grammar with emphasis on idiomatic French, original compositions, conversation, reading of contemporary French. Class conducted largely in French. Prerequisite: French A1 or equivalent. 2 hours. *TTh, VIII.*

C05. Classic Drama.**JONES and BISSIRI**

A study of typical plays by Corneille, Racine and Moliere, with collateral reports in French. Lectures in French. Prerequisite: French B3 or equivalent. Two sections. First semester. *V.*

- C106. Seventeenth Century Prose.** JONES and BISSIR
Study of Boileau, La Fontaine, La Bruyere, Descartes, Pascal, Bossuet, Fenelon, Mmes. de Sevigne, La Fayette and Maitenon; lectures and collateral study in French upon the age of Louis XIV. This and all following courses conducted in French. Second semester. *V.*
- C107a-C107b. French Conversation.** BISSIR
Practical course in French conversation based on modern colloquial usages. Prerequisite: French B3 and B4 or equivalent. 1 hour. *T, X.*
- D109. Literature of the Eighteenth Century.** JONES
A critical study of the French philosophers of the eighteenth century, with especial attention to Montesquieu, Voltaire and J. J. Rousseau. Collateral readings and reports by members of the class. Prerequisite: French C105 and C106. Required for French major unless D111 is taken. First semester. *I.* (*Omitted in 1927-1928.*)
- D110. Romantic School.** JONES
An intensive study of the French poets of the early nineteenth century. Readings from Hugo, Lamartine, A. de Musset, and others. Collateral readings and lectures upon the period. Prerequisite: French C105 and C106. Required for French major unless D112 is taken. Second semester. *II.* (*Omitted in 1927-1928.*)
- D111. Le Moyen Age.** JONES
Poetry of the Middle Ages. Les chroniqueurs. Villon. Lectures upon the literary history of the period. Required for French major unless D109 is taken. First semester. *IV.*
- D112. La Renaissance.** JONES
Ronsard and the Pleiade. Rabelais and Montaigne. Poetry of Marot. Lectures. Required for French major unless D110 is taken. Second semester. *IV.*
- D219. The Teaching of French.** BISSIR
Discussion of textbooks and methods. Technical: French phonetics. First semester. 2 hours. *A.*

GEOLOGY

- B1. Physical Geology, Dynamic and Structural** DUDLEY
Prerequisite: High school chemistry or equivalent. Class two hours a week; laboratory or field work, one period a week. First semester. Class, *WF, I*; laboratory, *W or Th 1:15-4:10*. Laboratory fee, \$3.00.

2. Historical Geology. DUDLEY

Prerequisite: Geology B1. Second semester. Class, *WF, I*; laboratory or field work, *W* or *Th, 1:15-4:10*. Laboratory fee, \$3.00.

3. Determinative Mineralogy. DUDLEY

Prerequisite: High school chemistry or equivalent. First semester. Two laboratory periods. 2 hours. *A*. Laboratory fee, \$4.00.

C105. Crystallography. DUDLEY

Must be preceded or accompanied by Geology B3, unless taken upon the written recommendation of the Department of Chemistry or of Physics. First semester 2 hours. *WF, V*.

C110. Petrology. DUDLEY

The study of rocks without the microscope. Prerequisite: Geology B1, B3 and C105. Second semester. One class and two laboratory periods. *A*. Laboratory fee, \$4.00.

D111. Optical Mineralogy. DUDLEY

Prerequisite: Geology C105. First semester. Two class and one laboratory periods. *A*. Laboratory fee, \$5.00. Given alternate years.

D112. Petrography. DUDLEY

Prerequisite: Geology D111. Second semester. One class and two laboratory periods. *A*. Laboratory fee, \$8.00. Given alternate years.

D230, D231. Geological Investigation and Research. DUDLEY

3 hours. *A*. Laboratory fee, \$4.00 each.

GERMAN**Aa-A1b. Elementary. NOLLEN, BAGSTAD**

The essentials of grammar. Translation from and into German. Constant ear training, and as much practice in speaking as time permits. Etymology. Comment on German life and literature. Three sections. *II, V*.

Ba-B3b. Advanced. NOLLEN, BAGSTAD

More advanced and with the addition of a study of different works of German literature. In the second semester, reading assigned on the lines of the student's major work in science or literature. Prerequisite: German A1 or equivalent. Two sections. *VI*.

B2a-B12b. German Literature and Life. NOLLEN

A survey, in English translation, of German life and thought. Contemporary art and history. Works of general interest such

as the Nibelungenlied, the lyrics of the troubadours, the writing of Martin Luther and some of the best modern German since the Reformation. *VIII.*

C113a-C113b. German Literature and Life. NOLLE

The same course as the above, with the exception that the required reading will be done in German instead of in English translation. *VIII.*

C109a-C109b. German Literature of the Nineteenth Century. NOLLE

Rapid reading of typical works from the time of Goethe until the present. Contact established with other European literary movements of the period. Discussion and papers. Prerequisite: German B3 or equivalent. *I. (Withdrawn in 1927-1928.)*

One of the following courses, to be elected only with the consent of the instructor, may be offered if there is sufficient demand.

D115. Goethe and His Times. NOLLE

Either semester. *A.*

D217. Middle High German. NOLLE

Either semester. *A.*

GREEK

B1a-B1b. Elementary. ROBBIN

First lessons; relation to modern Greek and to English scientific vocabulary; selected short passages from Greek literature. Book I of Homer's Iliad. *VIII.*

B3a, B3b. Selections from Greek Literature. ROBBIN

Selected readings from Herodotus, Plato, Homer and the tragedians. Study of the Greek theater and stage antiquities. *(Withdrawn in 1927-1928.)*

C117. History of Greece. ROBBIN

Lectures, assigned readings and quizzes on the history, civilization and achievement of the Greeks from prehistoric times to the Roman Conquest. First semester. *V.*

HISTORY

A1a-A1b. The Development of Western Civilization. PITMA

The evolution of civilization in Europe from antiquity to the present, and its spread throughout the world. Attention paid to the political, religious, intellectual, and economic forces of change. The aim is to lay a foundation for the understanding of contemporary problems. Normally a prerequisite for advanced courses in history. *I.*

B5a, B5b. American History.**COOKE**

A general survey from the early explorations to the present tracing the development of the American people in its economic, social, and governmental aspects. First semester to the administration of Jackson. Second semester, the Jacksonian period to the present.

B7a-B7b. English History.**PITMAN**

A survey of the development of the main features of civilization in England and the British Empire. Emphasis is laid upon the evolution of religious, intellectual, and economic forms as well as the growth of political institutions. Thus the course is largely a study of the cultural heritage of America. First semester, Great Britain to 1660; second semester, Great Britain and the Empire since 1660. *VIII.*

C09. Westward Expansion of American Society.**COOKE**

A study of frontier society in its geographic, economic, social and governmental aspects, and of the influence of frontier conditions and institutions on the character of American society and politics. Second semester, *VI. (Omitted in 1927-1928.)*

C13a-C113b. Modern European History.**COOKE**

Following an introductory survey of the forces operating in the society of the eighteenth century a study is made of the French Revolution and the Napoleonic period. First semester, to 1815. The development of European nations is traced in its political and cultural aspects with emphasis upon international relations with reference to present-day conditions. Second semester, 1815 to the present. *VII.*

C17, C118. History of the Greeks and Romans.**ROBBINS**

(See Departments of Greek and Latin for description.) *V.*

I19. American Diplomatic History.**FAIRMAN**

An examination of American diplomatic practice in such matters as neutrality and freedom of the seas, fisheries, commercial relations, the Monroe Doctrine, recognition of new governments, expatriation and protection of citizens abroad, immigration, disarmament, arbitration and international association. First semester. *II.*

I25a-D125b. Economic and Social History of the United States.**PITMAN**

A study of agrarian, commercial, and industrial conditions which helped determine the character and importance of the major political and social problems of American colonial and national history. 3 hours. *VII.*

I31a-D131b. Hispanic American History.**PIJOAN**

Special fields selected for study and investigation, such as the

period of the great discoveries, the Spanish settlement of California, Spanish institutions in America. 2 hours. *TTh, VI.*

D219. Teaching of History and the Social Sciences. COOK

Reports and discussions on such subjects as centers of historical investigation, schools of interpretation, mutual effect of teaching and research, societies, foundations, reviews, curricula, methods of instruction, apparatus, and the relation of history to other social studies and the arts. Second semester. 2 hours. *A.*

D232. Seminar in Western History. HULBERT

The exploration and settlement of the Far West, based largely upon investigations of the Mason Collection. Second semester. 2-4 hours. *A.*

For courses in American Government and Constitutional History, *see* the Department of Political Science and Law; for financial and economic history, *see* the Department of Economics; for the history of education, *see* Department of Education; for philosophy of the state and history of philosophy, *see* Department of Philosophy; for church history, *see* Department of Religion.

ITALIAN

B31a-B31b. Elementary. JONES

Essentials of grammar. Special emphasis upon pronunciation. Composition and dictation. *XI.*

C133. Boccaccio and Petrarch. JONES

Selections from the Decamerone and other works of Boccaccio. Study of the Canzoniere of Petrarch. First semester. *A.*

C134. Dante. JONES

Intensive study of the Inferno, with selections from the Purgatorio and Paradiso. Collateral readings with reports in Italian. Prerequisite: C133 or C135. Second semester. *A.*

D135. I Poeti dei secoli XVIII e XIX. JONES

A study of the foremost Italian poets and dramatists of the last two centuries. Collateral readings and reports in Italian. First semester. *A. (Omitted in 1927-1928.)*

D136. Il Cinquecento. JONES

A study of the Italian epics of the sixteenth century. Readings from Bolardo, Ariosto, Tasso and others. Collateral readings and reports in Italian. Prerequisite: C133 or C135. Second semester. *A. (Omitted in 1927-1928.)*

LATIN

a-A2b. Cicero, Ovid and Vergil. ROBBINS

Cicero, Orations I and IV against Catiline and the Oration for Archias; selected passages from Ovid's *Metamorphoses* and Vergil's *Aeneid*. VII.

a, B3b. Cicero, Pliny and Horace. ROBBINS

Cicero, *De Senectute*; Pliny, *Selected Letters*; study of the life and times of the late Roman republic and early empire. Horace, *Odes* and *Epodes*; philosophy, history and mythology as reflected in the poems of Horace; study of the metrics of Horace and the influence of the Greek lyric poets. VI.

C105a-C105b. Composition. ROBBINS

Review of Latin grammar; translation of sentences and connected discourse into Latin according to the needs of the class; lectures on word-formation and syntax. This course may be re-elected with credit and is required of students majoring in Latin. A. 1 hour.

C107a, C107b. Roman Comedy and Elegy. ROBBINS

Selected plays from Plautus and Terence. Origin and development of the elegy with emphasis upon the poems of Catullus, Tibullus, Propertius and Ovid. IV.

C108. History of Rome. ROBBINS

Lectures, assigned readings and quizzes on the history, organization and achievement of the Romans from the foundation of the Eternal City to the reign of Justinian. Second semester. V.

C109a, D109b. Roman Philosophy and Satire. ROBBINS

Selections from the philosophical works of Cicero, Lucretius and Seneca; contribution of Rome to the history of philosophy. Selected poems of Martial, Persius and Juvenal; history of the origin and development of satire. Alternates with C105. (Omitted in 1927-1928.)

C109. The Teaching of Latin. ROBBINS

Designed for those who plan to teach Latin in the secondary schools. First semester. 2 hours. A. (Omitted in 1927-1928.)

C110. Latin Seminar. ROBBINS

Seminar in Roman Literature with emphasis upon the Roman historians, Livy and Tacitus. Second semester. 2 to 4 hours. A.

MATHEMATICS

The courses in Mathematics designated A2, A4, A5 and B3 are intended primarily for Freshmen. Students who enter with

credit for three and a half or four units of commended work in Mathematics, including solid geometry and trigonometry must take Mathematics B13. Mathematics A5 is intended primarily for those who do not expect to take further work in the subject. Others should take Mathematics A4 and A2 or B3, according to their preparation and need.

A2. Plane Trigonometry. BERRY and RUSSELL

Elements of plane trigonometry with practical problems. Each semester. First semester, *V*; second semester, *III*.

A4. Algebra. RUSSELL

A semester course in second year algebra, designed for those who have studied algebra only one year. First semester. *II*.

A5a-A5b. Elementary Analysis. BERRY and TAYLOR

A theoretical and historical study of some of the more interesting principles of mathematical analysis. *III*.

B3a, B3b. Algebra. RUSSELL

Fundamental operations and quadratic equations; complex numbers; ratio, proportion and variation; binomial theorem; elementary functions; series; logarithms; theory of equations. Prerequisite: Two years of high school algebra. *V*.

B13a, B13b. Analytical Geometry and Calculus. RUSSELL

An elementary course in the principles of coordinate geometry and introduction to differential calculus. Designed to follow Mathematics A2, A5 or B3. *VI*.

B17. Elements of Analytic Geometry and Calculus. TAYLOR

Primarily for students of Engineering. Second semester.

C115a-C115b. Differential and Integral Calculus. RUSSELL

A continuation of Mathematics B13a, B13b. *IV*.

D119. Theory of Equations. RUSSELL

Theory and solution of higher algebraic equations, employing determinants, elimination and linear transformations. First semester. *II*.

D120. Differential Equations. RUSSELL

A general course in the theory and solution of differential equations. Second semester. *II*.

D121a-D121b. Higher Analysis. _____

An introduction to the realm of higher mathematics, including the intensive study of some particular subject, such as the theory of numbers or of real functions, designed to develop independence and power in mathematical reasoning. *III*. (Omitted in 1927-1928.)

227. Projective Geometry.**TAYLOR**

A deductive study of the principles of projective geometry with special attention to the foundations of geometry. Second semester. *A*.

219. The Teaching of Mathematics.**RUSSELL**

Lectures, readings, and discussions on what should be regarded as essential in the teaching of mathematics. First semester. 2 hours. *WF, VII. (Withdrawn in 1927-1928.)*

MILITARY SCIENCE

The College maintains an Infantry Unit, Senior Division, of Reserve Officers' Training Corps. The four-year course is divided into the basic course, which consists of the first two years, and the advanced course, which consists of the last two years. Enrollment in either course is voluntary but, when a student has elected either the basic or advanced course, completion of such course is a prerequisite for graduation.

The basic course is open to all physically fit male students who are American citizens. The advanced course is open to selected students who have completed the basic course or its equivalent, and who enter into an agreement to attend one summer instruction camp for a period of six weeks. Students who have completed two full academic years in a junior R.O.T.C. unit will normally be admitted to the second year of the basic course. Students who have completed three full years in a Junior R.O.T.C. unit may be admitted to the advanced course in their freshman year.

Students in the basic course are furnished uniforms without charge. Students in the advanced course receive an allowance from Government amounting to about nine dollars per month for two college years and receive nominal pay during the period of attendance at summer camps. Upon completion of the advanced course, students may be commissioned as second lieutenants in the Officers' Reserve Corps.

a-A1b. First Year, Basic Course**SANFORD**

Military drill, physical training, military hygiene and first aid; military courtesy; rifle marksmanship. 1½ hours. Class, *T, VIII or F, VII. Field work, M, 1:15-3:10.*

a-B3b. Second Year, Basic Course.**BACON**

Scouting and patrolling; command and leadership; automatic rifle; musketry; interior guard duty. 1½ hours. Class, *Th, VIII or F, IX; Field work, M, 1:15-3:10.*

C05a-C105B. First Year, Advanced Course.**BACON**

Military sketching; military field engineering; Infantry weapons (machine gun); command and leadership; combat principles. Junior year. 3½ hours. *VII and M. 1:15-3:10.*

D107a-D107b. Second Year, Advanced Course. SANFO

Infantry weapons (37 mm gun, 3-inch trench mortar); administration; military law; military history; combat principles; command and leadership; rules of land warfare. Senior year. hours. *IV* and *M*. 1:15-3:10.

MUSIC**THEORY AND APPRECIATION**

Courses in the Theory and Appreciation of music are granted credit on the same basis as other college studies and proficient students may major in either theoretical or applied music under conditions arranged in consultation with the head of the department.

A1a-A1b. Elementary Harmony. ALDERM

A study of intervals, scales, tonal magnetism, primary triads, dominant seventh and ninth chords, and all non-chordal tones. Harmonization of melodies. A2 is recommended. Prerequisite: Elementary knowledge of the pianoforte. Two sections, *I*, *II*.

A2a, A2b. Ear Training and Sight-Singing. FO

A study of scale tones and their relationships together with development of rhythmic appreciation. Melodic and harmonic dictation with a view to discriminative listening and proficiency in sight-reading. Recommended for all harmony students. Two sections. 3 hours' recitation. 2 hours' credit. *V* and *IX*. The section at *IX* is open only to students who have had one year of harmony.

B3a-B3b. History and Appreciation. ALDERM

A course tracing the development of music from ancient times to the present; biographical sketches of famous composers with a description of their principal works. Recitals, to aid in appreciation, are given frequently. Victrola and Duo Art. 2 hours. *MF*, *XI*.

B5a-B5b. Advanced Harmony. ALDERM

Secondary harmonies. Modulation and chromatically altered chords. Extensive keyboard drill. Creative work is encouraged from the beginning. Harmonization conducted on a melodic basis. Prerequisite: Music A1 or equivalent. *VII*.

C107a-C107b. Counterpoint. ALDERM

A study of Simple Counterpoint in the five species with the aim to develop technique in voice leading. Two and three part inventions. Creative work in the simple forms of Fugue Composition is undertaken during the course. Prerequisite: Music B5. *VI*.

13a-C113b. Orchestration.**CLOKEY**

A study of orchestral instruments, their capabilities and limitations, and their use singly, and in groups; arranging of compositions for Symphony. "American" and "Theatre" Orchestra; the study of scores; the theory and practice of conducting. This course is especially designed to meet the needs of a student desiring the State Certificate. Prerequisite: Music B5. *III.*

108a, D108b. Free Composition.**CLOKEY**

Advanced original work in the shorter free styles followed by the Sonata form. Prerequisite: Music C107. *A.*

9. Public School Music Methods.**COLEMAN**

Selection, presentation and interpretation of the song. Methods of developing sight-singing and other technical problems. A brief study of child psychology. Teaching plans with a bibliography of material. Class work includes actual teaching practice. First semester. 2 hours. *A.*

APPLIED MUSIC

The student in applied music will be enrolled for credit toward the Bachelor of Arts degree only upon the written recommendation of the Chairman of the Examining Committee and the approval of the Department, and upon the subsequent favorable action of the Classification Committee. This recommendation is based on the degree of ability and advancement shown in Proficiency tests. In addition the work in applied music must be accompanied or preceded by Harmony A1. A second year or more of credit is possible when the applied course is accompanied or preceded by Harmony B5. A minimum of two half-hour lessons weekly is required for which two hours' credit is allowed. No more credit is given for work below "B" (Sophomore) grade. No more than 12 hours' credit in applied music may be counted toward the Bachelor of Arts degree unless the student is able to present a total of 8 hours of "D" (Senior) grade work in any subject. In this case 16 hours' credit may be allowed. Proficiency tests are required only of students desiring credit toward the Bachelor of Arts degree. For further details *see* Music Bulletin.

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PHILOSOPHY

B21. Introduction to Logic.

IREDE

A study of the elements of deductive and inductive reasoning with special emphasis upon the problems of definition, nature and use of scientific hypotheses, probability, and deductive and inductive fallacies. Each semester. *VI.*

B23. Ethics.

DENIS

A study of the field of morality, the problem of human freedom, the standard of judgment of right and wrong and social and individual judgments on moral questions. An examination of conscience and reason. First semester. *V.*

C125a, C125b. History of Philosophy.

IREDE

A study of the main currents of thought from the early Greek thinkers through modern philosophic thought. The course is designed to be a general and cultural introduction to philosophy through history. *VII.*

C127. Introduction to Philosophy.

DENIS

A consideration of the meaning, method and end of philosophy and an examination of the problems of philosophic thought. These come out in Astronomy, Geology, Physics, Biology and Psychology. Second semester. *V.*

C133. Philosophy of Evolution.

DENIS

A study of the background of Darwin's idea of evolution with examination of later theories in their scientific and metaphysical aspects. Some adequate background in science and philosophy will be required. First semester. *VI.*

D118. Metaphysics.

IREDE

A study of such fundamental problems as monism and pluralism, the nature of the self, and teleology. Prerequisite: Philosophy C125 or C127. Second semester. *VIII.*

D120. The Philosophy of Art.

DENIS

A study of the nature of art, of its bases in human nature and its value as a means of interpretation of the universe together with an examination of the meaning of beauty. Second semester. *III.*

D132. Philosophy of the State.

DENIS

A philosophical study of the nature and function of the state and its basis in human nature, together with an examination of the philosophies of democracy, of the economic order and of internationalism. Some background in Social Psychology, Sociology, Economics or Political Science required. Second semester. *IV.*

20. Philosophy Since 1900.**DENISON**

A study of contemporary philosophic thought through some of the main modern thinkers with special reference to the dominant ideas of the civilization of today. First semester. *IV.*

30. Philosophy Seminar.**DENISON and IREDELL**

Admittance by consent of the instructors. First semester. *A. (Omitted in 1927-1928.)*

Scripps College offers the following courses, open to properly qualified Pomona College students in the year 1927-1928:

23. Philosophy of Culture.**ALEXANDER**

A study of the philosophical foundation of European culture periods, (classic, mediaeval and modern) with a preliminary survey of anthropological origins. First semester. *VII.*

24. Religion and Science in the Light of Modern Philosophy.

Second semester. *VIII.*

ALEXANDER**PHYSICAL EDUCATION****MEN AND WOMEN****6. School Hygiene and Supervision.****BIGELOW**

School Hygiene and Supervision, including First Aid. 2 hours. First semester. *MW, III.*

7a-C127b. Playground Theory.**HEATH**

1 hour. *W, IX.*

9a-C129b. Playground Dancing.**MCGOWND**

Open only to those taking Physical Education C127. ½ hour. *W, XI.*

10. Kinesiology.**MCGOWND**

First semester. *III.*

11. Study and Treatment of Growth Divergencies.**MCGOWND**

Prerequisite: Physical Education D130. Second semester. Lecture, 2 hours; laboratory, 1 hour. *III.*

13. Teaching of Hygiene.**BIGELOW**

Second semester. 2 hours. *MW, III. (Omitted in 1927-1928.)*

MEN

A physical examination is given to all entering students, together with a series of physical efficiency tests. Upon the basis of these tests and examinations each student is assigned to classes in sports, gymnastics or corrective exercises, according to his physical needs.

A1a. Sports, Gymnastics or Corrective Exercises.

NIXON, HEATH, STREHLE, MERRITT

Required, Freshman year. First semester. $\frac{1}{2}$ hour. *A*.**A1b. Self Defense.**

NIXON, HEATH

Required, Freshman year. Second semester. $\frac{1}{2}$ hour. *A*.**A2a-A2b. Gymnastic Exercises.**

STREHLE

Required of Freshmen not taking military. Freshman year. $\frac{1}{2}$ hour. *A*.**A5a. Informational Hygiene.**

NIXON

Must be taken in Freshman or Sophomore year unless equivalent is offered. Each semester. 2 hours. *TTh, IV*.**B3a. Swimming.**

HEATH, STREHLE, MERRITT

Required, Sophomore year. First semester. $\frac{1}{2}$ hour. *A*.**B3b. Sports or Gymnastics.**

NIXON, HEATH, STREHLE, MERRITT

Required, Sophomore year. Second semester. $\frac{1}{2}$ hour. *A*.**B4a-B4b. Sports.**

NIXON, HEATH, STREHLE, MERRITT

Required of Sophomores not taking military. Sophomore year. $\frac{1}{2}$ hour. *A*.**C105a-C105b. Sports.** NIXON, HEATH, STREHLE, MERRITTRequired, Junior year. $\frac{1}{2}$ hour. *A*.**C107a-C107b. Sports.** NIXON, HEATH, STREHLE, MERRITTRequired, Senior year. $\frac{1}{2}$ hour. *A*.**D135a-D135b. Methods in Coaching and Supervising Athletics.**

MERRITT, HEATH, STREHLE

Open to Senior men only. 1 hour. *A*.**D219. Teaching of Physical Education.**

NIXON

Theory of teaching physical education in elementary and secondary schools. Brief study of history and theory of physical education, of the various systems now in use, with emphasis on the California system. Second semester. 2 hours. *TTh, VIII*.**WOMEN**

A medical and physical examination is given all entering students with subsequent posture tests. Physical activities are allowed or prescribed as the result of these examinations. Each student is assigned to her gymnasium class section. Student

may have freedom of election in sports in as far as medical and physical examinations warrant, but must include during freshman and sophomore years one individual sport, one team or group sport, and one season of either folk or natural dancing.

5. Informational Hygiene.

BIGELOW

Must be taken in Freshman year, unless equivalent is offered. 2 hours. Each semester. *TTh, IV.*

11a-A11b. Gymnastics.

BIGELOW, DILLON

Required, Freshman year. $\frac{1}{2}$ hour. *MW, VII or XIII.*

12a-A12b. Sports and Dancing.

BIGELOW, DILLON, MCGOWND and ASSISTANT

Required, Freshman year. $\frac{1}{2}$ hour. *A.*

13a-B13b. Gymnastics.

BIGELOW, DILLON

Required, Sophomore year. $\frac{1}{2}$ hour. *TTh, VIII or XIV.*

14a-B14b. Sports and Dancing.

BIGELOW, DILLON, MCGOWND and ASSISTANT

Required, Sophomore year. $\frac{1}{2}$ hour. *A.*

15a-C115b. Sports and Dancing.

BIGELOW, DILLON, MCGOWND and ASSISTANT

Required, Junior year. $\frac{1}{2}$ hour. *A.*

17a-C117b. Sports and Dancing.

BIGELOW, DILLON, MCGOWND and ASSISTANT

Required, Senior year. $\frac{1}{2}$ hour. *A.*

19a-D119b. Methods in Coaching and Supervising

Sports.

BIGELOW, DILLON and ASSISTANT

1 hour. *F, XI.*

19. Theory of Teaching of Physical Education. MCGOWND

First semester. 2 hours. *A.*

PHYSICS

A1a-A1b. Introduction to Physical Science.

TILESTON and HITCHCOCK

A non-mathematical course intended for those who wish to obtain a knowledge of the facts and theories of physics, with their practical application to modern life. The lectures will be illustrated by numerous experimental demonstrations and the subject will be developed from the basis of the electron structure of matter. *V.* Fee, \$5.00 each.

B2a-B2b. General Physics.**TILEST**

A study of the phenomena and laws of mechanics, wave motion, sound, heat, magnetism, electricity and light. This course is designed to furnish a working knowledge of the basic principles of physics and is planned especially for those students who expect to continue their technical studies in physics, chemistry, engineering or medicine. Prerequisite: Trigonometry.

B4a-B4b. Physical Measurements.**TILEST**

Quantitative laboratory work in the subjects indicated in Course B2a-B2b. Must accompany B2a-B2b. *W* and *Th*. 1:4:15. 1 or 2 hours. Fee, \$3.00 each hour.

C111a-C111b. Electricity and Magnetism.**TILEST**

A course of advanced work in theoretical electricity and magnetism, a study of the fundamental laws underlying resistance and mutual inductance, and capacity in both direct and alternating current circuits. Prerequisite: Calculus and Physics B2a-B2b, B4a-B4b. 3 hours. *A*.

D109a-D109b. Electrical Measurements.**TILEST**

Laboratory in electrical and electromagnetic measurements; including the calibration of electrical measuring instruments, measurement of magnetization, resistance, inductance and capacity. Opportunity will be given for work in pyrometry, potentiometry and thermionics. Prerequisite: Physics C111a-C111b preceding or accompanying this course. 1 or 2 hours. *A*. Fee, \$4.00 each hour.

D120. Seminar and Investigation. TILESTON and HITCHCOCK

For majors in the department. May be repeated for credit. Each semester. 1 to 3 hours. *A*. Fee, \$1.00 to \$8.00.

POLITICAL SCIENCE AND LAW

A reading knowledge of one foreign language, preferably French or German, is required of students doing major work in this department.

B1. Political Control.**STC**

The genesis and nature of significant political phenomena; the bases and techniques of control in political society. Prerequisite for all other courses in political science. First semester, *III*, *IX*. Second semester, *III*.

B2. American Government.**FAIRM**

The genesis, nature, and institutional forms of the American state and federal systems with emphasis upon the development of political practice. Second semester, *III*.

C03. Municipal Problems. STORY

Description, analysis and causal explanation applied to problems in the political organization and administration of urban communities. Alternates with C104. First semester. *VII.*

C04. Political Institutions. STORY

A study of the origin, development and nature of representative assemblies and of the present process of adapting them to increasingly complex conditions. Alternates with C103. First semester. *VII. (Omitted in 1927-1928.)*

C05a, C105b. Elementary Law. BURGESS

An introduction to the study of American law and legal institutions with some analysis of the rights and liabilities arising from the more common legal relationships. 2 hours. *Th, S. IV.*

C07. European Governments. FAIRMAN

A comparative study of the form of government in the principal European states in the light of their historical experience and social and economic forces. First semester. *I.*

C08. International Politics. FAIRMAN

A study of competitive national interests in the community of states. Second semester. *I.*

C01. Public Opinion. STORY

The origin and nature of individual attitudes toward public policy and control; consideration of the function and scope of individual participation in public affairs. Second semester. *XI.*

C02. Parties and Politics. STORY

Analysis of problem of getting candidates and policies accepted in large democratic communities with diversified social and economic interests. Second semester. *VII.*

C11. Constitutional Law. FAIRMAN

An examination of the Constitution of the United States and the decisions of the Supreme Court upon questions arising thereunder. First semester. *IV.*

C18. International Law. FAIRMAN

Its nature, sources, and development; its function in the international community; the rights and duties of states; pacific and belligerent procedure for the protection of rights; the League of Nations and the Permanent Court of International Justice. Second semester. *II.*

D230, D231. Seminar in Political Science.**MEMBERS OF THE DEPARTMENT**

Research and Reading courses within the fields indicated below may be arranged in consultation with the head of department. Public Law; Politics; Political Institutions; Comparative Government; Municipal Problems. 2-4 hours. *A.*

Note: The following courses announced in related departments may be offered by anyone planning major work in Political Science; Economics C106, Public Finance; History D119, American Diplomatic History; History D219, Teaching of History and the Social Sciences; Psychology D112, Social Psychology; Philosophy D132, Philosophy of the State.

PSYCHOLOGY

B1 or B3 is prerequisite to all further courses in the department.

B1. Elements of Psychology.**EWER, EYRE**

The fundamental facts and laws of the mind. Principles of sensation, perception, memory, thought, feeling, emotion, instinct and will. The relation of mental processes to the nervous system and to action. Each semester. First semester, Ewer, *III*, Eyre, *V*; second semester, Ewer, *VIII*.

B3a-B3b. Elements of Psychology.**WILLIAMS, EYRE**

A more comprehensive course than B1, including classroom experiments and demonstration in addition to text book, reference books and lectures. *IV*.

B8. Applications of Psychology.**WILLIAMS, EYRE**

A critical study of the fundamental principles underlying applied psychology together with their application in various fields. First semester, Eyre, *VI*; second semester, Williams, *III*.

C106. Problems of Psychical Research.**EWER**

The mysterious phenomena of the mind presented in the light of scientific psychology. The subjects considered include hyperesthesia, automatisms, illusions and hallucinations, hypnotism, contemporary occultism and spiritualism. Second semester. *VI*.

C107. Educational Psychology.**EWER**

Practical applications of psychology to education. The inherited nature of the learner; principal features of the learning process; principles of educational discipline; methods of measurement. Each semester. First semester, *VIII*; second semester, *V*.

109. Advanced Psychology. WILLIAMS

A study of the various systematic points of view in contemporary psychology, principally those of structuralism, functionalism, behaviorism and mentalism. Second semester. *V*.

116. Comparative and Genetic Psychology. WILLIAMS

An intensive study of the methods used and the results obtained in the fields of animal and infant psychology. First semester. *III*.

118. Experimental Psychology. WILLIAMS

A laboratory course in psychology accompanied by lectures and discussions of the principles of scientific method used in psychological investigations. First semester. Class, *MF, V*; laboratory, *W, 1:15-4:10*. Laboratory fee, \$2.00.

112. Social Psychology. EWER

Mental processes underlying social order and progress. Psychological aspects of contemporary social problems. First semester. *IV*.

117. The Measurement of Intelligence. WILLIAMS

A study of the principles and methods of intelligence testing with special emphasis upon the methods of giving the Stanford and Herring Revisions of the Binet Tests. Second semester. *VIII*.

124. Abnormal Psychology. EYRE

Nervous and mental disorders and the principal methods of treatment. Second semester. *VI*.

125. Mental and Physical Hygiene in Education. EYRE

(See Education, D125.)

1230. Seminar in Psychology. WILLIAMS, EWER

A study of certain psychological problems. The topics change from year to year. 2 hours. First semester, Williams; second semester, Ewer. *A*.

PUBLIC ADDRESS**1a-A1b. English: An Introductory Course. SCOTT**

(In cooperation with the Department of English)

The fundamental principles of literary criticism and interpretation together with reading and study of specimens of the more important literary types; instruction and practice in writing and speech. 4 hours. In case of Freshmen and Sophomores this course is prerequisite for all B courses in the department. After 1927-1928 it will be prerequisite for all other departmental courses. Men: *WF, III*; section meetings at *II*. Women: *WF, V*; section meetings at *VI*.

B32a-B32b. Public Address.

SCOT

Training in analysis of subjects, selection and arrangement of material, psychological adaptation of material and treatment to specific audiences. 2 hours. *MW, V.*

B35a, B35b. Argumentation and Debate.

SCOT

Study of the principles of argumentation and practical application of these principles in class debates. Debate subject for the year analyzed and debated. 2 hours. *TTh, IV.*

C131a-C131b. Advanced Public Address.

SCOT

Training in the construction and delivery of formal addresses. Prerequisite: Public Address B32 or equivalent. 2 hours. *TTh, VIII.*

C134a, C134b. Interpretative Reading of Dramatic Literature.

SCOT

The intensive study of a limited number of standard plays with emphasis on dramatic values in character and plot. Interpretative reading of these plays in class. Recital programs before the class. Prerequisite: Public Address A1, or equivalent. 2 hours. *WF, VII.*

RELIGION**A1. Orientation in Religion.**

BROOKS and STOR

A study of the influence of modern thought in the interpretation of religion and of the contribution of religion to civilization. 2 hours. First semester. *IV*; Second semester, *IV and XI.*

B3. Old Testament History and Religion.

BROOK

First semester. 1 hour. *F, XI.*

B5. The Prophets.

TAYLO

Second semester. 1 hour. *F, XI.*

B6. Introduction to New Testament.

HAN

A careful study of such questions as date, authenticity, authorship, composition, integrity, purpose and contents of the documents which comprise the New Testament. First semester. 2 hours. *TTh, XII.* (*Omitted in 1927-1928.*)

B7. The Teachings of Jesus.

HAN

Special emphasis is laid on Jesus' conception of the Kingdom of Heaven, his revelation of God and his doctrine concerning his own person and his claims on the fealty of men. Second semester. 2 hours. *TTh, XII.* (*Omitted in 1927-1928.*)

8. The Evolution of the English Version. HAND

A study of the various texts and versions by which the Bible has come to be a literary possession of the English-speaking race. First semester. 2 hours, *TTh, XII*.

9. The First Interpreters of Jesus. HAND

A study of the teachings of Paul and the general epistles as they have modified and interpreted Christianity. Second semester. 2 hours, *TTh, XII*.

104a, C104b. Christian Origins. BROOKS and HAND

The purpose is to understand the program of Jesus in relation to present day problems. A survey of the transformation in Christianity in the age of the Apostles. *V*.

09a. The Religious World. BROOKS

This course surveys the origin and growth of religious experience, the characteristics of a fully developed religion, the rise of modern religious ideas, and the place of religion in social reconstruction. First semester. *III*.

25. History of Religions. TAYLOR

A study of the nature of religion, with special reference to the essential facts of early religions, and a more thorough study of existing non-Christian religions, their chief teachings and influences. First semester. *VI*.

26. History of Christianity. TAYLOR

A study of the chief facts of Christian history, with reference to the great leaders and teachings of Christianity. A study of successive movements through which God has worked out his purpose. Second semester. *VI*.

33. Principles of Religious Education. TAYLOR

A study of the psychological, pedagogical, and sociological principles underlying the practical work of religious education, with special reference to the ultimate and immediate aims of religious education in the modification of human nature, and the necessity of conscious personal participation in vital social experiences as the bases of all educational religious values. First semester. *IV*.

34. Materials and Methods of Religious Education TAYLOR

This course emphasizes the necessity of the scientific approach in teaching religion. It includes a study of the criteria for evaluating the curriculum of religious education, the method principles of interpreting and teaching religion, and the relation of religion to the sciences. Second semester. *IV*.

Scripps College offers the following course, open to properly qualified Pomona College students in the year 1927-1928:

- D124. Religion and Science in the Light of Modern Philosophy**
Second semester. *VII.* ALEXANDER

SPANISH

- A21a-A21b. Elementary.** HUSS

Essentials of grammar and pronunciation. Dictation, reading from easy modern texts. *III.*

- B23a-B23b. Intermediate.** HOLMES, HUSS

Selections from Perez Galdos, Valdes, Blasco Ibanez, Benavente. Collateral readings and reports, review of grammar, conversation. Prerequisite: Spanish A21 or equivalent. Two sections. *VI.*

- C125. Nineteenth Century Literature.** HOLMES

Readings from the leading novelists since 1880. Lectures. The course, and all to follow, conducted in Spanish. First semester. *VIII.*

- C126. Drama of the Golden Age.** HOLMES

Readings from Calderon, Lope de Vega, Tirso, J. R. de Alarcon, and others. Lectures in Spanish upon the history of Spanish literature. Collateral readings and reports. Required of those majoring in Romanic Languages and specializing in Spanish. Second semester. *VIII.* (*Omitted in 1927-1928.*)

- C126. (bis.) Contemporary Spanish Drama.** HOLMES

A study of Benavente, Rivas and others of the leading dramatists of the present century. Collateral readings and reports in Spanish. Second semester. *VIII.*

- C127a-C127b. Spanish Conversation and Composition.**

HOLMES

Intensive drill in modern colloquial forms. Prerequisite: Spanish B23. 1 hour. *A.*

- D128a-D128b. America del Sur.** HOLMES

A comprehensive and detailed study of the geographical, historical, literary and cultural phases of the leading Latin American nations. Prerequisite: Spanish C125 and C126. *II.*

- D129. Spanish Prose Classics.** PIJOAN

La Celestina. El Lazarillo. El Quijote. Prerequisite: Spanish C126. First semester. *IV.*

- D130. El Romancero.** PIJOAN

The early Spanish ballads. El Poema del Cid. A study of the earliest manifestations in Spanish literature. Prerequisite: Spanish C126. Second semester. *IV.*

219. The Teaching of Spanish.
Second semester. *A*.

HOLMES

ZOOLOGY

- 3a-B3b. The Human Body.

GILCHRIST

A course in the structure and function of the human body. Students may enter the course either semester, but must attend both semesters for credit. Class periods, *MF, I*; laboratory, *Th, 1:15-4:10*. Laboratory fee, \$6.00 each.

- 1, B12. General Zoology.

HILTON

A general course which deals with the classification, general habits and distribution of animals. The first semester considers the invertebrates, in the second attention is given to the comparative structures of back-boned animals. Prerequisite: Biology A1, or Zoology B3 or equivalent of one of these. Class, *TTh, II*; laboratory, *T or W, 1:15-4:10*. Laboratory fee, \$6.00 each.

10. General Physiology.

GILCHRIST

A study of function: including such topics as protoplasm, metabolism, irritability, and behavior. Prerequisites: Inorganic Chemistry and Zoology B3 or B11. First semester. Lectures, *TTh, VIII*. Laboratory, *T, 1:15-4:10*. Laboratory fee, \$6.00. Alternates with C111. (*Omitted in 1927-1928.*)

11. Advanced Invertebrate Zoology.

GILCHRIST

A study of the classification and ecology of invertebrates (other than land arthropods), with especial reference to the local fauna. There will be a number of field excursions to nearby fresh waters and to the coast. Prerequisite: Zoology B11. First semester. Lectures, *TTh, VIII, 4:15*; laboratory, *T or F, 1:15-4:10*. Laboratory fee, \$3.00. Alternates with C110.

12. Advanced Vertebrate Zoology.

GILCHRIST

A lecture, field, and laboratory study of vertebrates, with special reference to the local fauna. A considerable proportion of the course will be devoted to birds. Prerequisite: Zoology B11. Second semester. Lecture, *Th, VIII, 4:15*; field excursion, *W, I*; laboratory, *T or F, 1:15-4:10*. Laboratory fee, \$3.00. Alternates with C118. (*Omitted in 1927-1928.*)

18. Entomology.

HILTON

A general course in the structure and classification of insects. Each student makes his own collection for identification and study. Prerequisite: Zoology B11. Second semester. Class period, *T, VIII, 4:15*; laboratory, *W and Th, 1:15-4:10*. Laboratory fee, \$6.00. Alternates with C112.

D113. Histology.

HILTON

The microscopic anatomy of the tissues and organs especially of vertebrates. Some attention is given to methods. This course is very helpful to special students of zoology or psychology as well as those preparing for medicine. Prerequisite: Zoology B3 or Zoology B11, B12. Class, *T, IV*. Laboratory by appointment. One class, two laboratory periods. Laboratory fee, \$8.00.

D114. Neurology.

HILTON

A general consideration of the structure and functions of the nervous system and sense organs chiefly of vertebrates. This course is especially helpful for special students of psychology as well as those intending to study medicine. Prerequisite: Zoology D113. Class, *T, IV*. Laboratory by appointment. One class, two laboratory periods. Laboratory fee, \$6.00.

D117a, D117b. Embryology.

GILCHRIST

The first semester deals with maturation, fertilization and early development. The second semester is concerned with the formation of organs. Prerequisite: Zoology B3 or B11 and B12. Class, *M, V*; laboratory, *MW, 1:15-4:10*. Laboratory fee, \$8.00 each.

D131. Zoological Seminar.

HILTON, GILCHRIST

Reviews of important contributions in all fields of recent Zoological literature. Open to Juniors and Seniors. Second semester. 1 hour. *F, I*.

D135. Zoological Problems.

HILTON, GILCHRIST

This course is for undergraduates who are prepared to undertake special work in general Zoology, Physiology, Entomology, Anatomy or Embryology. Such problems may be with local insects or other animals or they may be of a general nature dealing with life functions and structures. Either semester. 2 to 3 hours. *A*. May be repeated for credit. Laboratory fee, \$2.00 per hour.

D215. Zoological Research.

HILTON

This course is like D135 but is intended for graduate students only and may include some of the work for the master's degree. Either semester. 2 to 5 hours. *A*. May be repeated for credit. Laboratory fee, \$2.00 per hour.

SUMMER SESSION 1927

COURSES OF INSTRUCTION

CLAREMONT DIVISION

BIOLOGY

- | | | |
|------|------------------------|------|
| 815. | Heredity and Evolution | MUNZ |
|------|------------------------|------|

EDUCATION

- | | | |
|-------|--|----------|
| 8103. | Principles of Elementary Education | ALLEN |
| 8104. | History of Education in the United States | NICHOLL |
| 8107. | Educational Psychology | WILLIAMS |
| 8113. | The Junior High School | FITTS |
| 8119. | Classroom Methods and Management | KELLER |
| 8125. | Growth and Development of the Child | WILLIAMS |
| 8130. | Public Education in California | GOULD |
| 8108. | Education for Citizenship | NICHOLL |
| 8115. | Secondary Education | PAUL |
| 8116. | Public School Administration and Supervision | PAUL |
| 8117. | Organization and Supervision of Elementary Education | ALLEN |
| 8118. | Educational Tests and Measurements | WILLIAMS |
| 8210. | Educational Finance and Statistics | GOULD |
| 8212. | Philosophy of Education | NICHOLL |
| 8216. | Practice Teaching | KELLER |

ENGLISH

- | | | |
|-------|------------------------------|---------|
| 851. | English for Foreign Students | MACKEY |
| 8102. | Modern Drama | SHERMAN |
| 8115. | The Modern Novel | SHERMAN |
| 8219. | The Teaching of English | FITTS |

FRENCH

- | | | |
|------------|--------------|---------|
| 81a and b. | Elementary | JONES |
| 83a and b. | Intermediate | BISSIRI |

COURSES OF INSTRUCTION

HISTORY

SB5. American History Since 1865

FAIRMA

SC109. Some Problems of American Diplomacy

FAIRM

MUSIC

Voice

BABCO

Piano

WE

Organ

CLOK

PHYSICAL EDUCATION

SC135. Methods in Coaching and Supervising Athletics

MERRI

POLITICAL SCIENCE

SB2. American Constitution and Government

MATH

PUBLIC ADDRESS AND DRAMA

SA31. Fundamentals of Speech

SC

SC134. Dramatic Reading and Interpretation

SC

SC135. Play Production

SHERM

SECRETARIAL SUBJECTS

SB31. (Economics) Accounting

THOM

SPANISH

SA21a and b. Elementary

HUSS

SB23a and b. Intermediate

HUSS

SC136. Spanish Drama from the Golden Age

HOLM

SD131. Spanish-American Literature

HOLM

LAGUNA BEACH DIVISION

SB11. General Zoology

HILTO

SB15. Marine Zoology

HILTO

SC16. Human Biology

HILTO

SC and SD. Special advanced work as arranged with
individuals

HILTO

ADMINISTRATION

PUBLIC ASSEMBLIES

is the practice of the College to give opportunity to the college interests for their consideration and expression on four evenings of each week. At the present time these exercises usually begin at 9:30 a. m. on Monday, Tuesday, Thursday and Friday, and include in their scope the intellectual, social and religious life of the College.

The policy of the College is to urge the students to associate themselves for worship with the Claremont Church or those in neighboring communities. For this reason there is no regular appointment for College worship on Sunday, though many forms of religious activity are maintained in connection with the churches.

REPORTS

A record of the scholarship and deportment of each student is kept, and deficient students are reported to the Registrar. Special reports are made at or near the Thanksgiving and Spring sessions. Grades will be sent at any time upon request of parents. The grade of scholarship is determined by the daily work of the classroom supplemented by frequent test reviews and by final examinations.

The aim is to encourage faithfulness and regularity in daily work rather than spasmodic effort to meet some single test.

PHYSICAL ATTENTION

The physical care of students is a matter of special concern to the College and the advantages of unusual attention and opportunity are offered. The climate of Southern California affords an out-of-door life the year round. Supervision is given

to athletics in all seasons. A regular physician is on the faculty of the College, under whose direction every student on entering has a physical examination. Regular work in physical education is prescribed throughout the four years, and courses in Physiology and Hygiene are given. A large swimming pool is provided, access to which is free to all students, subject only to a semi-annual physical examination. The medical advice of the College physician is ordinarily available free of charge to all students, subject to certain conditions of hours and location. At the residence, the College meeting these bills; provided that for nursing, surgical dressing, and medicines as well as medical service in chronic or protracted illness are at the expense of the ill or injured. *The College, however, reserves the right to discontinue this individual medical service at any time without previous notice.* As a natural result of all this attention the health of the College is such as to give special assurance to all considering attendance at Pomona.

GENERAL REQUIREMENTS

Students are expected to be loyal to the spirit and purpose of the institution and to maintain regular attendance on all College appointments. Any student who falls below grade in scholarship, or who, for any reason, in the judgment of the faculty or its proper committees, is felt not to be a desirable member of the student body, may be dismissed without specific charges.

It is assumed that, as far as possible, students will room in the College residence halls and board at the College Commons. Any other arrangement for room or board must have the approval of the proper Dean. Lists of approved rooms for men are kept at the office of the Dean of the College; for women, at the office of the Dean of Women. All rooms in the College residence halls are rented for the College year. Unless there is a written agreement to the contrary, it is assumed that rooms

private houses are rented for one semester. Change of rooms is made only by permission of the Deans.

To avoid misunderstanding between students and householders, it is advised that agreements regarding rooms be put in written form.

It is urgently pointed out to both students and parents that the value of a college education consists in no small degree in the fullest participation in the college atmosphere and life. It is important, therefore, that all absence through the college year should be avoided. Some of the most important of the college values are lost by absences on Saturday and Sunday, on which days are centered particular and vital phases of the common life, and it is therefore urged that over-Sunday visits at home or elsewhere be avoided.

Experience bears out the conclusion that the owning or renting of automobiles by students while in residence at college, except in cases where they are used regularly for local transportation to and from college, is a distinct detriment to faithful participation in those common phases of college life which are of greatest value, and especially discourages concentration upon a serious program of study. The College, therefore, strongly advises parents not to provide automobiles for students, except when they are a practical necessity in carrying forward a normal collegiate program of study and work.

The use of tobacco is discouraged at all times.

Detailed information regarding college requirements is found in the *Manual of Procedure*, which should be secured by all students at the office of the Registrar.

EXPENSES

ROOMS IN COLLEGE RESIDENCE HALLS. A deposit of \$0.00 is necessary to secure a room and should accompany the application for the room. This amount is retained as a breakage

fee, from which deductions will be made for individual and communal damages to the building, the balance being returned at the end of the year. Rooms are assigned to new students in order of application.

The charge for rent does not include the use of the halls during the Christmas and Spring vacations, when the halls are closed. The residence halls are opened the Saturday before the opening of the College year and closed the second day after commencement.

Each room is provided with the necessary furnishings, including rug for the floor; the only articles to be furnished by the student are towels, and linen and covers for a single bed.

The College reserves the right to dismiss from a dormitory without rebate any student who becomes a disturbing or undesirable occupant.

SMILEY HALL. This dormitory for men has both single rooms, and suites of three rooms accommodating two students. Each occupant pays \$100.00 for the College year.

RESIDENCE HALLS FOR WOMEN. Harwood Court, the beautiful residence hall for women, in which is included the dormitory known as Strong Hall has both single and double rooms, as well as suites for two or three students. For each individual the charge is ordinarily \$150.00 for the College year. In a few cases rooms are \$130.00 each, if occupied by two students; \$200.00 if occupied by one.

The cottages have double rooms, each student paying from \$80.00 to \$150.00 per year, according to the location of the room.

Women occupying College residence halls or cottages are expected to board in the College dining-room, and rooms are rented in these buildings only in conjunction with the advance payment for board. Freshman women not resident in their own home are also expected to board in the College dining-room.

BOARD. In the College dining-room provision is made for the boarding of students under the direct management of the College. The rates are the lowest consistent with good quality of food and service, the approximate cost for 1927-1928 being \$60.00. Arrangements may be made to pay by installment at a slightly higher rate than by the semester. All board bills are payable in advance.

In addition to the College dining-room there is a cafeteria dining-room seating approximately one hundred students. The quality and cost of food in the two rooms are the same.

Men or women wishing to board at other approved places than the College dining-room or the cafeteria may do so by permission of the proper Dean, except as specified above.

SUMMARY OF EXPENSES. The necessary expense for the College year, exclusive of fees for special courses and expenses which are purely personal, is about \$750.00.

BILLS. All College bills are due each semester in advance and must be paid by the student at the time of registration. No refunds are made to those leaving before the end of the semester except that in the case of those leaving before the middle of the semester because of illness one-half of the tuition and laboratory fees are refunded and in the case of those dropping out for good cause within a week of their registration all but \$25.00 is returned. No refund is made on a room payment unless the room is re-rented to someone not then rooming in a college residence hall.

Students are not given honorable dismissal nor graduated whose bills are not paid. Seniors must settle all recognized bills by 4 p. m., of the fourth day preceding Commencement if they are to receive their diplomas with their class.

TUITION

GENERAL CHARGES

Regular tuition, including all general privileges, Music and Drama Course Ticket, Library privileges, etc., per semester	\$150.00
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Tuition for students carrying less than twelve hours of work, for each such hour, per semester exclusive of above general privileges..... 12.50
 Laboratory fees, as stated after description of courses.

CHARGES IN MUSIC AND ART¹

For those paying regular tuition:

For one half-hour private lesson in music per week, per semester\$ 45.00
 For each half-hour private lesson in excess of one per week, per semester..... 40.00
 For each class lesson per week in art, per semester..... 18.00

For those carrying less than twelve hours of college work, exclusive of work in music or art:

For one-half hour private lesson in music per week, per semester 60.00
 For each half-hour private lesson in excess of one, per semester 40.00
 For each class lesson in art per week, per semester, for the first lesson..... 25.00
 For each additional lesson..... 18.00

FEES

Application fee, \$2.50.

Graduation fee, \$10.00.

Laboratory fees range from \$2.00 to \$15.00. The exact fee for a given course is stated in connection with the description of that course under *Courses of Instruction*; in advanced courses only does it exceed \$10.00.

A visitor's fee of \$5.00 is required from those visiting a course of study and \$3.00 for each additional course.

BREAKAGE DEPOSITS

Bacteriology and Plant Physiology, \$5.00 each.

Chemistry, \$10.00 for each course taken.

Practice fees for the use of College pianos and organs:

PIANO

One-half hour daily, per semester (voice students).....\$ 3.50
 One hour daily, per semester..... 6.00

Additional hours at the same rate.

¹Students may register for Applied Music at any time, equitable charges being arranged upon application.

GRAND PIANO

One hour daily, per semester.....\$ 9.00

Additional hours at the same rate.

GREAT ORGAN IN BRIDGES HALL

One hour weekly, per semester.....\$ 7.50

Additional hours at the same rate.

PRACTICE ORGAN

One hour weekly, per semester.....\$ 3.00

Additional hours at the same rate.

PEDAL ORGAN

One hour daily, per semester.....\$9.00

Additional hours at the same rate.

PRACTICE FEE, VIOLIN OR VIOLONCELLO

From without piano, one hour daily, per semester.....\$ 1.50

Additional hours at the same rate.

HONORS AND PRIZES

HONORS AT GRADUATION

Honors at graduation are of two types, General Honors and Departmental Honors.

GENERAL HONORS: Graduation *cum laude* is granted to those who earn 50 per cent more credits than hours and graduation *magna cum laude* to those earning 75 per cent more credits than hours. The honor *summa cum laude*, if granted, is awarded by a committee consisting of one member of the faculty selected from and by each (group) division of the Faculty from the number of those entitled to the *magna cum laude*. These honors will be granted only to students who have met the requirements for a major and are registered for the degree *with honors*. At the beginning of the sophomore year students may register as candidates for the degree *in ordinary* or for the degree *with honors*. Special opportunities for the development of individual initiative are afforded candidates for the latter degree.

In the determining of General Honors all the work taken is considered except the required work in Physical Education.

DEPARTMENTAL HONORS: Juniors of special ability are permitted to pursue for the remainder of their college work a special *Honors Course* which involves partial freedom from classroom requirements and comprehensive examinations at the end of the senior year. Such students are expected to read widely over a field somewhat broader than a single department, and also to develop rather intensively a narrower field. Their initiative is expected to lead them to more than usual understanding.

Students who successfully complete the *Honors Course* are given degrees "with Honors in _____ (name of department)" or "with High Honors in _____ (name of department)."

Further information concerning the *Honors Course* may be obtained from the Honors Committee of the Faculty.

HONORS IN COURSE

COURSE HONORS are given at the end of each semester to undergraduate students who average 85 per cent more credits than the hours for which they were registered. The grade in Physical Education and Applied Military Science are not considered in the award of these honors, save that they must be at least passing.

Course Honors for the first semester are published early in the second semester; those for the second semester early in the next fall, save that second semester honors of seniors are published Commencement Day.

THE PHI BETA KAPPA SOCIETY

The Pomona Chapter of Phi Beta Kappa is the Gamma of California.

Upperclassmen "who are of good moral character, who are candidates for the degree of Bachelor of Arts, and who are distinguished for breadth of culture and excellence of scholarship" are eligible to membership in the Phi Beta Kappa Society.

PRIZES

The following prizes are offered for proficiency in the work of the several departments:

THE BARBARA SANFORD ALLEN PRIZE: An annual competitive prize of fifty dollars to be awarded to a student of organ playing in the Department of Music. This award is made possible by the husband and parents of a graduate of the Class of 1915 of Pomona College.

THE RENA GURLEY ARCHIBALD HIGH SCHOLARSHIP PRIZE: A prize of fifty dollars to be awarded to that member of the graduating class taking the B.A. course and ranking highest in scholarship, established by the bequest of the late Reverend Andrew W. Archibald, D.D.

THE LLEWELLYN BIXBY MATHEMATICS PRIZE: A prize for excellence in Analytic Geometry and Calculus; open to all students completing both Mathematics B13 and C115. A prize of ten dollars is given by Mr. Llewellyn Bixby.

THE DOLE PRIZES: A prize debate upon some subject selected by the faculty, is arranged for the close of the second semester. First and second prizes of fifteen and ten dollars, respectively, established by the late Mr. J. H. Dole, in memory of his brother, Mr. W. B. Dole, are endowed by Mr. J. Albert Dole and Mr. A. M. Dole.

THE HAGER PRIZES: Prizes for the best essays on a foreign missionary subject, open to all students were endowed by the late Mr. and Mrs. C. R. Hager. At present three prizes of ten dollars each are given.

THE JENNINGS PRIZES: Prizes offered to members of the Junior and Freshman classes for excellence in the use of written and spoken English. Two prizes for men and two for women are awarded in each class, the money available at the opening of college in the succeeding fall semester. The total amount of the prizes is \$600.00, the gift of Mr. Paul R. Jennings of San Diego.

THE KINNEY PRIZES: A prize declamation contest, open to the members of the Freshman class, occurs toward the end of the first semester. First and second prizes of fifteen and ten dollars, respectively, are endowed by Mrs. H. N. Kinney.

THE LORBEER PRIZES: Prizes for the best essay on the subject, "How to Keep Well"; open to all who take the course in Anatomy and Physiology. First and second prizes of fifteen and ten dollars, respectively, are given by Dr. Thomas L. Lorbeer, '03.

THE MONCRIEFF ASTRONOMY PRIZE: A prize given to the student in the first year course in Astronomy, taken regularly in class, whose interest in the study and proficiency in the observatory work are indicated by the best notebook kept in accordance with the teacher's suggestion. A prize of ten dollars is given by Miss Flossie C. Moncrieff, '11.

THE MUDGE LATIN PRIZES: Prizes for excellence in Latin. First and second prizes of ten and five dollars, respectively, are endowed by friends of the College.

THE VAILE PRIZES: Prizes for the best essay or oration on the general subject of Agriculture in Southern California open to the Junior and Senior classes, were endowed by the late Mr. Charles S. Vaile. At present first and second prizes of fifteen and ten dollars respectively are given.

SCHOLARSHIPS AND BENEFICIARY AID

The income of certain funds is used towards paying the tuition of students who are in pecuniary need, and, by authorization of the trustees, is distributed annually through a committee of the faculty. Scholarship aid is given only to students who are or intend to become candidates for a degree from Pomona College, who maintain a high standard of honor, who are economical in their habits, who do not use tobacco, who are regular in their attendance upon college exercises, and whose scholarship meets the following condition: The maintaining, after the first semester of the Freshman year, of at least "C" grade.

Applicants for aid who have not yet entered College should forward to the Chairman of the Committee on Student Aid and Labor, a formal application accompanied by two letters, one from parent or guardian and the other from principal or teacher, giving information concerning need, character and attainments. They should also send a certified statement of their scholastic record. All applications for aid must be renewed annually on or before May first.

Aid may be withdrawn at any time from students who prove not to have conformed to the conditions, and is permanently withdrawn after the second forfeiture due to low standing or unsatisfactory deportment.

Recipients of scholarship aid may be called upon to assist the College in ways that do not interfere with their studies.

Awards are made from the income of the following funds:

THE FRANCIS BANCROFT MEMORIAL FUND, \$1,500. Given by Mrs. James T. Ford of Los Angeles, California, in memory of her father.

A FUND OF \$2,500. Given by L. H. BARROWS.

THE MARTHA E. BERRY MEMORIAL SCHOLARSHIP OF \$5,000. Given by Miss Elizabeth E. Berry. For foreign students.

THE H. G. BILLINGS MEMORIAL SCHOLARSHIP, \$1,000. Given

THE MABEL S. BRIDGES MEMORIAL SCHOLARSHIP, \$3,500. Given by Mr. and Mrs. A. S. Bridges of San Diego, California, in memory of their daughter. Available for women.

THE KATE CONDIT BRIMHALL MEMORIAL MUSIC SCHOLARSHIP FUND, \$2,000. Given by the late Mr. and Mrs. A. P. Condit.

THE BRISTOL MEMORIAL FUND, \$400. A fund raised as a memorial to the Reverend Sherlock Bristol.

THE HENRY HERBERT BROWN SCHOLARSHIP FUND, \$1,000. Given by Mrs. Fannie E. Brown of Los Angeles, California, in memory of her son.

THE BESSIE A. BROWN SCHOLARSHIP FUND, \$1,000. Given by Mrs. Fannie E. Brown of Los Angeles, California, in memory of Bessie A. Brown.

A FUND OF \$961.78. Given by the Class of 1918 towards the founding of a scholarship.

THE CHARLES C. CRAGIN MEMORIAL SCHOLARSHIP FUND, \$5,025. Given by Mrs. Laura E. Cragin in memory of her husband, Rev. Charles C. Cragin.

THE AGNES K. CRAWFORD MEMORIAL FUND, \$1,000. Given by David R. Crawford and William Crawford, in memory of their mother.

EBELL CLUB OF POMONA SCHOLARSHIP FUND, \$600.

A FUND OF \$2,600. Given by Mary E. Elwood of Redlands, California.

A FUND OF \$2,500. Given by Rev. James T. Ford of Los Angeles, California.

A FUND OF \$1,000. Given by Mrs. Margaret Fowler of Pasadena, California.

A GENERAL FUND OF \$28,240.

ALICE PAUL HARWOOD SCHOLARSHIP FUND OF \$3,000. Open to graduates of Chaffey Union High School of Ontario.

A FUND OF \$5,000. Given by Charles E. Harwood, LL.D., of Upland.

THE THOMAS F. HOWARD MEMORIAL SCHOLARSHIP FUND, \$2,000. Given by Dr. and Mrs. H. G. Brainerd of Los Angeles, California, in memory of Mrs. Brainerd's father.

KAPPA DELTA HONOR SCHOLARSHIP OF \$287.50. Given by members of Kappa Delta fraternity.

STELLA M. KING SCHOLARSHIP FUND FOR WOMEN, \$10,000.

A FUND OF \$2,000. Given by Henry L. Kuns of La Verne.

A FUND OF \$1,800. Given by Miss Jean Loomis, '97, of Nan-ting, China.

THE HOWARD J. MILLS FUND OF \$3,000. Given by Mrs. Howard J. Mills of Los Angeles, California, in memory of her husband.

THE ONTARIO CONGREGATIONAL CHURCH FUND, \$186.50. Given by the Ontario Congregational Church towards the founding of a scholarship.

A FUND OF \$5,000. Given by Mrs. Loraine H. Page of Pomona, California. (Three thousand dollars of this may at some time be used for other purposes.)

THE ARTHUR WARREN PHELPS MEMORIAL SCHOLARSHIP FUND, \$2,000. Given by the late Mrs. C. S. and Mr. C. A. Phelps, in memory of their son and brother.

THE LYDIA PHELPS MEMORIAL FUND, \$4,000. Given by Hiram E. Phelps of Ontario, California, in memory of his wife.

THE PILGRIM CHURCH OF POMONA FUND, \$1,524.94. Given by the Pilgrim Congregational Church of Pomona towards the founding of a scholarship.

THE PILGRIM CHURCH WOMEN'S AUXILIARY FUND, \$300. Given by the Women's Auxiliary of the Pilgrim Congregational Church of Pomona.

THE JOHN D. POTTER MEMORIAL FUND, \$2,000. Given by Mrs. J. T. Potter of Westboro, Massachusetts, in memory of her husband.

THE FRANCIS M. PRICE FUND OF \$1,000. For children of missionaries.

A FUND OF \$1,800. Given by Dr. Anna H. Searing of Escondido, California.

THE WALTER O. SHATTO MEMORIAL FUND, \$4,000. Given by Mrs. Clara R. Shatto in memory of her husband.

THE CLYDE H. SHIELDS SCHOLARSHIP FUND, \$1,200. Given by R. P. Shields of San Diego, in memory of his oldest son, who was drowned in 1894, when about twenty-one years of age.

THE SWEET SCHOLARSHIP FUND OF \$2,500. Given by Harlan P. Sweet in memory of his wife, C. Nell Sweet.

A FUND OF \$2,000. Given by Miss Susan E. Thatcher of San Diego.

A FUND OF \$1,000. Given by Mrs. Maria T. Wardwell of Plymouth, Connecticut.

A FUND OF \$2,000. Given by Henry S. West of Los Angeles.

The College also administers loan funds established by the bequest of Ellen H. Lyman and by George H. De Kay, Jr., in memory of his brother Frelin Campbell De Kay. By means

of these funds, it is possible to co-operate in a moderate way and temporarily, with the pressing need of students.

THE HARMON FOUNDATION extends to four selected students its assistance by a loan for tuition.

THE HENRY STRONG SCHOLARSHIPS (three scholarships of \$250 each), \$750. Established by the Henry Strong Foundation under the provisions of the will of Henry Strong, late of Chicago, Illinois, and Santa Barbara, California.

AN EMERGENCY LOAN FUND made possible by the gift of \$500 by Mrs. E. F. Ray provides a means of meeting situations of temporary need among the students.

SELF-SUPPORT

A committee of the faculty endeavors to find employment for students needing to earn a part of their expenses. Many are thus helping themselves by various forms of labor such as janitor work, waiting on tables at the Commons, general house work, gardening and the like. The most desirable positions are generally secured by upperclassmen who have proven themselves good workers and good students, and those coming to the College for the first time should be content if any work which they can satisfactorily do is secured for them. Students in any case should come prepared to pay all bills for at least one semester. Their record during this semester will be a large factor in deciding what opportunities for self-help will be open to them. Applications for aid in securing employment should be addressed to the Chairman of the Committee on Student Aid and Labor.

BUILDINGS AND EQUIPMENT

The College grounds consist of about four hundred acres, of which sixty are included in Blanchard Park, about ten in Alumni Field, thirty in a prospective athletic field, fifty in the campus proper, centering in Marston Quadrangle, and two hundred and fifty in a newly acquired tract, the gift of Miss Ellen B. Scripps.

There are nineteen buildings on the campus, heated from a central heating plant.

The Mary L. Sumner Hall, named in memory of the wife of Professor Charles B. Sumner, has been removed from its original site and remodeled for administrative and faculty uses.

Holmes Hall, a memorial of Cyrus W. Holmes, Jr., of Monmouth, Massachusetts, reconstructed in 1916 in conformity with more modern plans for buildings and campus, is devoted mainly to chapel, recitation rooms, the Business office, and the offices of the Registrar and the Dean of the College.

Pearsons Hall of Science, the gift of Dr. D. K. Pearsons, contains the laboratories and lecture rooms of the departments of physics, psychology, mathematics and engineering.

The Library, the gift of Mr. Andrew Carnegie, is an imposing structure, exceptionally well adapted to the purposes for which it was built.

The Frank P. Brackett Observatory, the gift of Mr. Llewellyn L. Lxby, '01, is designed throughout to be of service to the student in the direct study of the stars.

The Albert K. Smiley Hall is the dormitory for men. It has both single rooms and suites of three rooms, affording accommodations for eighty students. The dormitory has all modern conveniences and is completely furnished.

Harwood Court is a large and adequate dormitory affording accommodations for about two hundred women.

The College also owns several cottages, in which similar accommodations can be secured. These facilities have been made possible by large and generous gifts from friends of the College.

Rembrandt Hall, the first section of the Art Building, is devoted chiefly to the work of the Department of Art. The upper floor contains studio and work rooms; the lower floor a convenient auditorium of moderate size for exhibits and assemblies.

The Mabel Shaw Bridges Hall of Music, the gift of Mr. and Mrs. Appleton S. Bridges, of San Diego, offers opportunities for the study of music unexcelled in the West.

The Gymnasium, comprising three commodious structures affords ample equipment for physical training and includes a large swimming pool.

The Claremont Inn has, besides two large student dining-rooms accommodations for eighty guests.

The Open-Air Theater, built to take advantage of the natural setting of Blanchard Park, though uncompleted, has at present a seating capacity of over 4000.

The Harwood Hall of Botany, the gift of Mr. A. P. Harwood, of Upland, contains lecture rooms and laboratories for the use of the Department of Botany.

The Memorial Training Quarters stands as a remembrance of the Pomona College men who lost their lives in the Great War. It represents the gift of the parents of one of those men, Sheldon Gerry, '17, supplemented by those of alumni, students and friends.

The Mason Hall of Chemistry, the gift of Mr. W. S. Mason is unsurpassed in structure and equipment for the study of Chemistry.

The Crookshank Hall of Zoology is the gift of Mr. D. C. Crookshank. It provides amply for the needs of the Department of Zoology.

The Marine Laboratory, located at Laguna Beach, has nine private rooms for special workers and two general laboratories as well as storerooms, work rooms and aquarium room.

The Pomona College summer camp at Bluff Lake in the San Bernardino Mountains consists of five modern cabins, located on a tract of 120 acres given to Pomona College by Mr. J. S. Edwards. The camp, at an elevation of 7,500 feet, is in a spot of great and unspoiled natural beauty.

Various smaller buildings add to the completeness of the College campus.

THE LIBRARY

The main library, of 59,376 books and 46,550 pamphlets, has been carefully selected, and represents a working library of great educational value.

The College possesses the following library collections in addition to the main library: The Cook-Baker Biological Library, the Astronomical Library, the New England Collection, the Mason California Collection, and the Viola Minor Westergaard Art Collection.

The main library, the New England, the Mason California Collection and the Westergaard Art Collections are housed in the Carnegie Library Building, the Cook-Baker Library in Brookshank Hall, the Astronomical Library in the F. P. Brackett Observatory.

The library is a depository for the publications of the Carnegie Institution of Washington, and for the United States Government documents. The library has a well selected list of the most valuable scholastic and general periodicals.

DEPARTMENTAL ORGANIZATIONS

Under the general direction of various departments the following organizations have been formed:

THE POMONA COLLEGE GLEE CLUB
THE POMONA COLLEGE WOMEN'S GLEE CLUB
THE POMONA COLLEGE CHOIR
THE POMONA COLLEGE SYMPHONY ORCHESTRA
THE POMONA COLLEGE BAND
THE ASTRONOMICAL SOCIETY
THE SOCIETY OF PURE AND APPLIED MATHEMATICS
THE HISTORY CLUB
LE CERCLE FRANCAIS
EL CIRCULO ESPANOL
IL CIRCOLO ITALIANO
DER DEUTSCHE VEREIN
THE COSMOPOLITAN CLUB

STUDENT ACTIVITIES

THE ASSOCIATED STUDENTS. This association coordinates all student activities. Its officers are chosen by the student body from their own number. All important questions are considered by its executive committee, which is composed of those prominent in such varied lines as athletics, oratory, and the editorship of *Student Life*. This body has charge of inter-collegiate as well as inter-class relations.

ASSOCIATED WOMEN STUDENTS. The women of the student body form a voluntary organization, electing their own officers and committees and holding regular meetings. This organization considers and promotes the special interests of the women.

CHRISTIAN ASSOCIATIONS. Branches of the Young Men's Christian Association and the Young Women's Christian Association have long been influential factors in the life of the College.

literary, debating and dramatic organizations are represented the following:

THE POMONA COLLEGE DEBATING CLUB

ALPHA KAPPA

THE POMONA COLLEGE LYCEUM

DELTA LAMBDA

THE MASQUERS

PHI KAPPA SIGMA

ALPHA DELTA MU

THE COSMOPOLITAN CLUB

ATHLETICS. The direction and financial management of athletics rest with the Director of Athletics, who has associated with him as an advisory body the Athletics Council, composed of members of the faculty and three students. Under the general manager there is a student manager for each sport.

Alumni Field, consisting of about ten acres, has been developed for the alumni into athletic grounds admirably equipped and unsurpassed in the Southwest in beauty of setting. First-class tennis courts, an excellent track, baseball and football fields, also hockey and basketball courts are within the limits of the campus, the courses of the Indian Hill Golf Club are available, and athletic exercises and field sports are encouraged by the officers of the institution.

A swimming pool, of the standard size for water polo, and fully equipped with modern appliances, is open to all students. An invariable condition to the use of the pool is a semi-annual physical examination.

Students are required to maintain a certain standard of excellence in all their studies in order to represent the College on any of its athletic teams or other organizations coming before the public.

PUBLICATIONS

The stated publications of the College are issued as numbers of the *Pomona College Bulletin*, which is published bi-monthly. These include:

The *Annual Catalog*.

The *Annual Register of Alumni*.

The *Annual Register of Trustees, Faculty and Students*.

The *Annual Announcement of Courses*.

The *Annual Directory*.

Alumni and departmental publications are:

The *Pomona College Quarterly Magazine*, devoted to the interests of the College and Alumni.

The *Journal of Entomology and Zoology*, published under the auspices of the Department of Zoology.

The *Publication of the Astronomical Society of Pomona College*, published under the auspices of the Department of Astronomy.

The *College Letter*, issued by the College for the information of the alumni.

STUDENT PUBLICATIONS

The *Student Life* is published daily by the student body and is devoted to current affairs.

Manuscript is a literary magazine issued four times a year.

The *Metate* is published each year by the associated students and contains material appropriate to a college annual.

The *Hand Book*, which contains material designed especially for new students, is issued at the beginning of the year by the associated students.

BUREAU OF APPOINTMENTS

A Bureau of Appointments is conducted in connection with the office of the Secretary of the Faculty for the benefit of members of the College who desire to teach after graduation. The purpose of the Bureau is to maintain a list of available positions and to recommend from the applicants registered those who are qualified for specific positions.

An opportunity is also offered graduates of the College who are already engaged in teaching, to register their present positions and to indicate whether they desire a change, and if so, under what conditions. An effort is made to further the desires of graduates insofar as made known. The services of the Bureau are entirely gratuitous. Communications should be addressed to the Bureau of Appointments.

SUMMARY OF STUDENTS

NOVEMBER, 1927

Graduate Students	45
Seniors	195
Juniors	181
Sophomores	192
Freshmen	210
Specials	12
Total Enrollment Regular Session.....	835

SUMMER SESSION

Regular Students at Claremont.....	259
Regular Students at Laguna.....	37
Total	296

INDEX

- Administration, 81
- Admission, 28
 - as Special Students, 30
 - Description of Subjects
 - Accepted for, 30
 - Requirements for, 28
 - to Advanced Standing, 29
 - to Freshman Standing, 28
 - of Graduate Students, 30
- Alumni Field, 95, 99
- Art, 42
- Assemblies, Public, 81
- Associated Students of Pomona
 - College, 98
- Associated Women Students, 98
- Astronomy, 43
- Athletics, 99

- Bills, 85
- Biology, 44
- Blanchard Park, 95
- Bluff Lake Camp, 97
- Board, 85
- Board of Trustees, 15
 - Committees of, 16
 - Officers of, 16
 - Secretary of, 15
- Botany, 45
- Bridges Hall, 96
- Buildings and Equipment, 95
- Bureau of Appointments, 101

- Calendars, 4, 5
- Campus, 95
- Character of the College, 12
- Chemistry, 46
 - Mason Hall of, 96
- Choice of Subjects, 33
- Christian Associations, 98
- Church Attendance, 81
- Claremont Inn, 96
- Class Officers, 27
- College Commons, 85
- College Entrance Examination
 - Board, 28
- College Physician, 82
- Contents, 6
- Courses, Designation of, 41
- Courses of Instruction, 41

- Courses Required for Admission
 - to Freshman Standing, 30
- Credit Requirements, 33
- Curriculum, 33

- Degrees—
 - Bachelor of Arts, 33
 - Master of Arts, 37
- Departmental Major, 35
- Departmental
 - Organizations, 98
- Dormitories—
 - Men, 84, 95
 - Women, 84, 95

- Economics and Sociology, 48
- Education, 50
- Election of Courses, 32
- Engineering Science, 52
- English, 52
- Examination, Entrance, 28
 - Medical, 28
- Expenses, 83
- Expenses, Summary of, 85
- Extra Entrance Credits, 31

- Faculty, 17
 - Committees of, 27
 - Visiting, 26
- Fees, 86
- French, 55

- General Requirements, 82
- Geology, 56
- German, 57
- Greek, 58
- Gymnasium, 96

- Harwood Court, 88, 95
- Harwood Hall, 96
- Historical Sketch, 9
- History, 58
- Holmes Hall, 95
- Honors and Prizes, 88
 - General Honors, 88
 - Departmental Honors, 88
- Honors, Reading for, 35
- Hour Requirements, 33

- Inn, the Claremont, 96

- lian, 60
- gona Beach Marine Labora-
tory, 96
- in, 61
- ecture Foundations, 39
- rary, 95, 97
- cation and Surroundings, 12
- p of Campus, 105
- rine Laboratory, 96
- rston Quadrangle, 95
- yster's Degree, 37
- thematics, 61
- triculation, 32
- memorial Training Quarters, 96
- itary Science, 63
- ic, 64
- ic and Art Courses, 36, 86
- ic and Drama Course, 37
- bservatory, The Frank P.
Brackett, 95
- en-Air Theater, 96
- Outline of Work by Years, 40
- arsons Hall of Science, 95
- Beta Kappa, 89
- osophy, 66
- ysical Attention, 81
- ysical Education, 67
- ysical Examination, 28
- ysics, 69
- itical Science and Law, 70
- zes, 89
- ychology, 72
- lications, 100
- olic Address, 73
- Public Assemblies, 81
- Reading for Honors, 35
- Registration, 32
- Religion, 74
- Rembrandt Hall, 96
- Reports, 81
- Requirements for Admission, 28
- Residence Halls, 83, 84
- Rooms, 84
- Scholarships and Beneficiary
Aid, 91
- School of Education, 37
- Self-Support, 94
- Smiley Hall, 84, 95
- Sociology, 48
- Spanish, 76
- Special Students, Admission as, 30
- Strong Hall, 84
- Student Activities, 98
- Students, Summary of, 101
- Subject Requirements, 34
- Summary of Expenses, 85
- Summary of Students, 101
- Summer Session, 36
 - Courses of Instruction, 79
 - Visiting Faculty, 26
- Sumner Hall, 95
- Swimming Pool, 99
- Teachers' Certificates, 36
- Trustees, 15
- Tuition, 85
- Zoology, 77
 - Crookshank Hall of, 96

THE LIBRARY
OF THE
UNIVERSITY OF ILLINOIS

THE LIBRARY
OF THE
UNIVERSITY OF ILLINOIS

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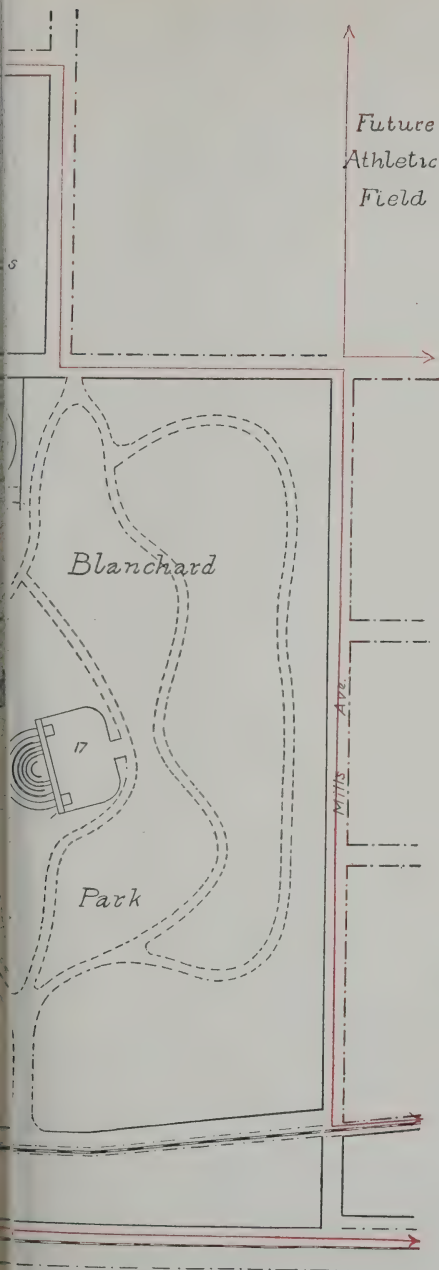
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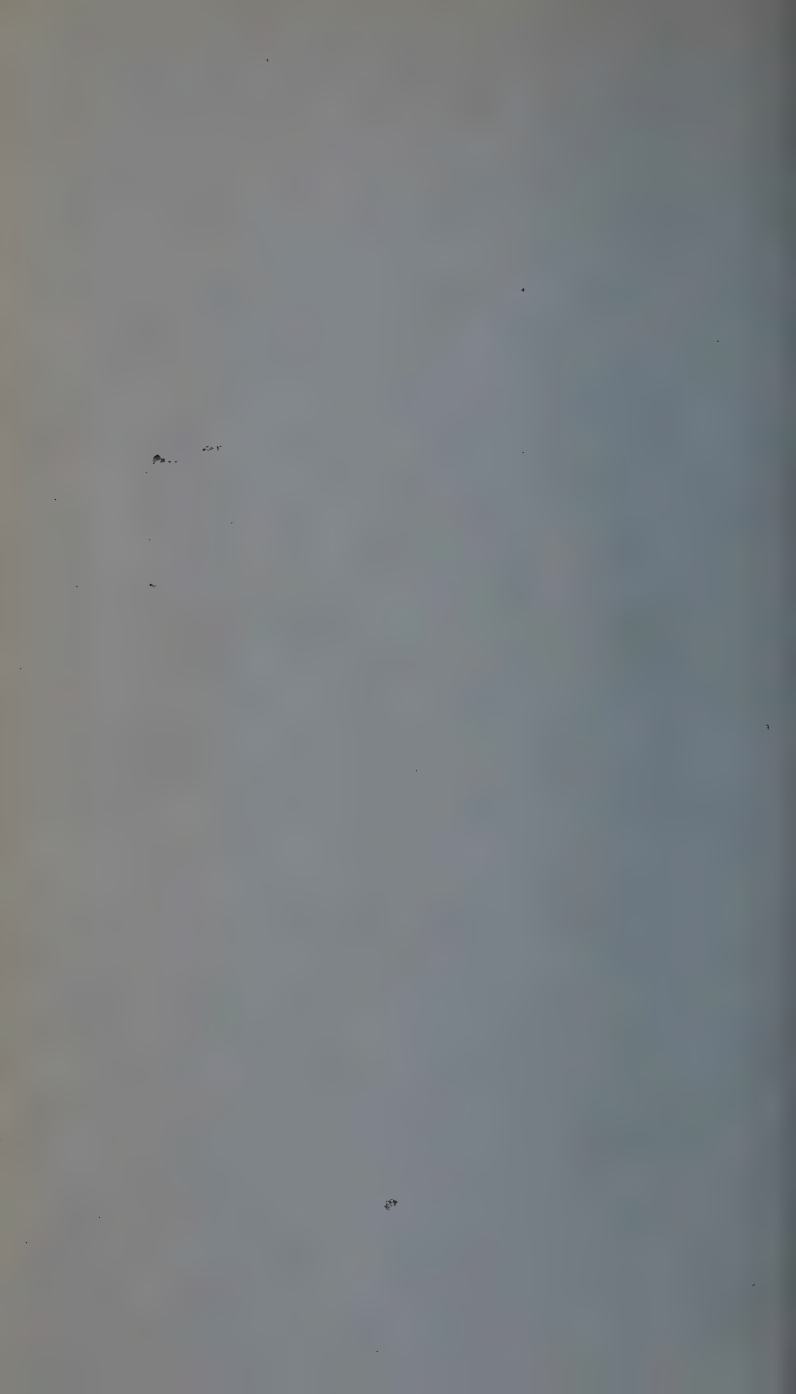
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Post Office

Church



1. *Sumner Hall (Administration)*
2. *Holmes Hall (Recitation and Chapel)*
3. *Bridges Hall (Music)*
4. *The Inn and Commons*
5. *Pearsons Hall (Science)*
6. *The President's House*
7. *The Library*
8. *Smiley Hall (Men's Dormitory)*
9. *Rembrandt Hall (Art)*
10. *Harwood Hall (Botany)*
11. *Crookshank Hall (Zoology)*
12. *Mason Hall (Chemistry)*
13. { *Gymnasium*
14. { *Buildings*
15. {
16. *The Observatory*
17. *Open-air Theater*
18. *Baseball Diamond*
19. *Tennis Courts*
20. *Memorial Training Quarters*
21. *Alumni Athletic Field*
22. *Harwood Court (Women's Dormitory)*
23. *Site for President's House*
24. *Studio*
25. *Heating Plant*

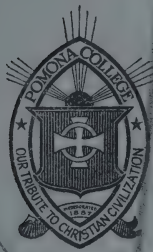


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Pomona College

Annual Catalog

1928-1929



Claremont • California

CORRESPONDENCE

Correspondence should be addressed as follows, the postoffice address being in every case Pomona College, Claremont, California:

Requests for catalogs, bulletins and general information, also inquiries to the Appointment Bureau and regarding Public Events and Lectures SECRETARY OF THE FACULTY

Admission of Students

REGISTRAR

Business Affairs

CONTROLLER

Student Affairs

DEAN OF THE COLLEGE AND DEAN OF WOMEN

Regional Service

DIRECTOR OF REGIONAL SERVICE

Applications for Faculty Appointments

CHAIRMAN OF THE FACULTY

Summer Session

DIRECTOR OF THE SUMMER SESSION

Alumni Affairs

SECRETARY OF THE ALUMNI ASSOCIATION

POMONA COLLEGE BULLETIN

PUBLISHED BI-MONTHLY BY POMONA COLLEGE

Entered at the Postoffice, Claremont, Cal., as second-class matter

Vol. XXX NOVEMBER, 1928

No.

PRESIDENT'S OFFICE
UNIVERSITY OF ILLINOIS

Forty-first Year
JAN 25 1929

Pomona College

ANNUAL CATALOG

REGISTER OF OFFICERS AND
TEACHERS FOR THE YEAR
1928 - 1929, REQUIREMENTS
FOR ADMISSION, DESCRIPTION
OF COURSES AND GENERAL
INFORMATION

November, 1928

CLAREMONT · CALIFORNIA
Published by the College

1928		1929		1930			
JULY		JANUARY		JULY		JANUARY	
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COLLEGE CALENDAR

1928

September	17, <i>Monday</i>	}	Registration Days for Freshmen
September	18, <i>Tuesday</i>		
September	19, <i>Wednesday</i>	}	Registration Days for Sophomores, Juniors and Seniors.
September	20, <i>Thursday</i>		
September	21, <i>Friday</i>		Convocation, 9:00 a. m.
September	21, <i>Friday</i>		First Semester Classes begin, 10:15 a. m.
October	14, <i>Sunday</i>		Founders Day
November	28, <i>Wednesday</i>		Thanksgiving Recess begins, 4:05 p. m.
December	3, <i>Monday</i>		Thanksgiving Recess ends, 7:30 a. m.
December	21, <i>Friday</i>		Christmas Recess begins, 4.05 p.m.

1929

January	7, <i>Monday</i>		Christmas Recess ends, 7:30 a. m.
January	14, <i>Monday</i>		Kinney Freshman Contest in Declamation, 8:00 p. m.
January	23, <i>Wednesday</i>	}	Mid-year Examinations
January	31, <i>Thursday</i>		
February	2, <i>Saturday</i>		First Semester ends
February	2, <i>Saturday</i>		Mid-year graduation
February	4, <i>Monday</i>		Registration Day for underclassmen and specials
February	5, <i>Tuesday</i>		Registration Day for upperclassmen
February	6, <i>Wednesday</i>		Second Semester Classes begin, 7:30 a. m.
February	9, <i>Saturday</i>		Matriculation Day
February	22, <i>Friday</i>		Washington's Birthday
April	5, <i>Friday</i>		Spring Recess begins, 4:05 p. m.
April	16, <i>Tuesday</i>		Spring Recess ends, 7:30 a. m.
May	30, <i>Thursday</i>		Memorial Day
June	6, <i>Thursday</i>	}	Final Examinations
June	13, <i>Thursday</i>		
June	17, <i>Monday</i>		Commencement

SUMMER VACATION

August	24, <i>Monday</i>		Summer Session begins
August	2, <i>Friday</i>		Summer Session ends
September	18, <i>Wednesday</i>	}	Registration Days. Examinations for entrance
September	19, <i>Thursday</i>		
September	20, <i>Friday</i>		Convocation, 9:00 a. m.

CONTENTS

	PAGE
College Calendar	1
Historical Sketch	2
Character of the College	2
Board of Trustees	3
Committees of the Board	6
Faculty	7
Class Officers and Faculty Committees	8
Admission	7
General Requirements and Methods of Admission	7
Admission to Freshman Standing	7
Subjects Required for Admission to Freshman Standing	8
Admission to Advanced Standing	9
Admission as Special Students	9
Registration	9
Matriculation	10
Election of Courses	10
Curriculum	11
Degree of Bachelor of Arts	11
Hour Requirements	11
Credit Requirements	11
Choice of Subjects	11
General Requirements for Graduation	12
Concentration in Special Fields	13
Honors	13
Courses in Music and Art	15
Teachers' Certificates	15
Summer Session	15

	PAGE
Music and Drama Course	36
Lecture Foundations	36
Courses of Instruction	37
Summer Session—Courses in	77
Administration	80
Public Assemblies	80
Reports on Scholarship	80
Physical Attention	81
General Requirements	81
Expenses	82
Tuition	85
Fees	86
Honors and Prizes	87
Honors at Graduation	87
The Phi Beta Kappa Society	87
Prizes	87
Scholarships and Beneficiary Aid	89
Self-Support	93
Buildings and Equipment	94
The Library	96
Departmental Organizations	97
Student Activities	97
Publications	99
Bureau of Appointments	100
Summary of Students	100
Index	101
Map of Campus	103

HISTORICAL SKETCH

THE history of the development of Southern California from a land sparsely inhabited and apparently fit only for a cattle range, into a genuine American commonwealth with its multitude of prosperous communities, covers little more than forty years; but this brief span of time has been a period of intense activity and remarkable growth. This epoch of swift progress was inaugurated by the completion of a second transcontinental railway, in this case piercing Southern California directly from the East, together with the sudden awakening to a realization of the great agricultural possibilities of the section through irrigation. A large immigration and a rapid increase in land values were at once induced. New towns sprang up almost in a day and great industrial projects characteristic of such a period were at once inaugurated.

While the commercial and speculative interests were conspicuously in evidence there were among the new settlers, nevertheless, many whose chief concern was for the higher values of life and character. Not least among these were those whose former affiliations had been with New England and its institutions. The Southern California District Association of Congregational Churches, meeting in San Bernardino in 1882, agitated the question of founding a college of the New England type. In 1886 the Association met at Lugonia (now Redlands), when the report of the educational committee was an earnest appeal for such a college. At this meeting a larger educational committee than usual was appointed and was instructed to view locations and invite proposals of aid toward establishing a "Christian College of the New England Type." In accordance with these instructions the committee visited various places from which they had received offers of aid and gave the matter serious and careful consideration.

In May, 1887, the District Association met in Los Angeles and became the General Association of Southern California. The General Association immediately gave full power to its committee of education, not only to select the College site, but to appoint trustees for the prospective institution. Fifteen trustees, one of whom is still a member of the board, were duly appointed; the College was incorporated October 14, 1887, under the name of The Pomona College; and a site was selected about four miles north of the city of Pomona.

For the immediate needs of the College a small private house was rented in Pomona, and in it the work of instruction was begun in September, 1888. In the following January an unfinished hotel in Claremont (now Sumner Hall), together with considerable land adjacent, was given to the College and the work was transferred to that place. It was originally supposed that this location would be temporary. Later this plan was abandoned and Claremont was made the permanent seat of the College. By this time, however, the name of "Pomona College," tentatively given, had become so definitely fixed that it has been retained notwithstanding the change of location.

The growth of the College has been swift and constant. The first class was graduated in 1894, at which time the total number of college students was forty-seven. For some time the work of the Preparatory School was of large importance, but later on this was discontinued owing to the increased growth and importance of the College. The maximum number which can now be received is 800 divided equally between men and women among the four classes. This limitation compels the rejection of a large number of applications. The original campus of about twelve acres has been enlarged by purchase and by gifts until it now comprises approximately three hundred acres; and this area together with its buildings, is being developed according to plans carefully worked out by competent landscape gardeners and architects, the whole growth being in accord with one harmonious plan.

The imperative demand for expansion has led to the careful study of the ways in which the obvious advantages of the small college could be maintained while still making possible the gathering together of the equipment that is justified only in a large university. This study has resulted in the adoption of the group plan of affiliated colleges. To this end "Claremont Colleges" was incorporated October 14, 1925, and the first of the new units known as Scripps College in honor of Miss Ellen Browning Scripps, whose generosity and vision made it possible, was opened in September, 1927.

All this rapid progress of the institution has been made possible by a most generous company of friends who have responded nobly to the calls of higher Christian education and to the needs of young people. From the very beginning the institution has been the creation of sacrifice, affection and idealism. To a remarkable degree the College has been made possible by a great democracy of high-minded givers, and the character of these benefactors is reflected in the daily life and procedure of the College.

While the College was originally Congregational in organization, it long ago made itself the servant of a wider fellowship. The Board of Trustees is a self-perpetuating body, absolutely free from ecclesiastical control and representing different communions, but obliged, nevertheless, by the College Charter to maintain the institution as truly Christian, though unsectarian. From the first it has been the policy of all concerned in the administration of the institution to maintain a high standard of college life and work, and to put the emphasis upon quality in the development of strong and serviceable Christian manhood and womanhood. Thus the purpose for which the College was founded is expressed in its motto, "*Our Tribute to Christian Civilization.*"

CHARACTER OF THE COLLEGE

POMONA COLLEGE is located at Claremont on the Santa Fe and Pacific Electric Railways, thirty-five miles from Los Angeles. It is connected by the Pacific Electric Railway with Pomona, which is four miles distant, on the Union Pacific and Southern Pacific roads. On the rim of an orchard-covered valley, which is hemmed in on all sides by lofty mountains, and with Mt. San Antonio in the immediate background rising to the height of ten thousand feet, its situation is one of rare beauty. The genial southern climate invites to outdoor life and exercise the year round, while the deep canyons, the rushing streams and the long trails to the heart of the hills allure to the rewarding intimacies of nature. The town of Claremont, which now numbers about two thousand inhabitants, owes its existence to the College, and has the attractive features of a typical college community. The location and situation, with easy reach of the great and growing metropolis of the Southwest and yet in the quiet retirement of valley and hill, is uniquely wholesome and stimulating in full measure to simplicity and thoughtfulness and all the best enthusiasms of which life is capable.

The College is pre-eminently a company of workers. From the very beginning it has maintained a reputation for interest in thorough scholarship rather than in large numbers. The procedures of the College are established in the purpose of appealing to students who appreciate the seriousness of the College opportunity. To this end, the standards of admission are unusually high. Not only is the number limited, but as defined elsewhere only students who have finished their preparation with a high grade of promise are received. It is the distinct purpose to make the membership in the institution itself a scholastic honor. This inevitably involves a sacrifice of certain values which would

temporarily pleasurable but which are not consistent with the most remunerative purposes.

It is the habit of the College to urge that scholarship should not only be high but also broad and inclusive. Pomona College is not a professional school. It insists that the best preparation for life includes not only the ample, generous and complete training of the college course, such as is here given, but also at a later period a thorough and definite professional specialization. It is farther insisted that this best and most complete training is practicable for a much larger number of young people than commonly feel that they have the resources of time and money for it. The College is eager to co-operate in the problems of such aspiring students; it has also been singularly successful in permeating the body of students with these ambitions, and the remarkable success of its graduates is due in no small degree to the fact that nearly seventy per cent of all who have graduated have taken subsequent professional training.

To the end that the College may be adequate for the broadest intellectual citizenship and service, a certain number of courses representing typically the differentiated fields of knowledge and investigation are required, and particular emphasis laid upon those topics which relate to the history of thought, the organization of society and the bases of truth and righteousness. These courses are required of all, whether staying a longer or shorter time in the institution, as being important to the main purpose for which the College exists. While these few courses are required, there is around them ample field for selection, according to the student's individual interest and purpose.

The College recognizes the fact that social training is also an essential part of education. It is believed that the co-educational character of the College greatly increases the culture of the student body in this respect. Working together on the highest levels of life, men and women are most likely to associate in mutual respect and dignity. It is practically the unanimous testi-

mony of the graduates of this College that these relations add to the genuine wholesomeness and rounded worth of the student life. While emphasizing social values and opportunities, the College, however, recognizes them as interests which must be held subordinate to the main business of study and work. For the reason limitations which sometimes may seem narrow are laid upon the social life of the college community. Fraternities and sororities, in the ordinary acceptance of these terms, and extravagant social life, do not exist at Pomona College, and no one should seek the institution who is not willing to make surrender of some personal pleasures in the interests of the common college earnestness and simplicity.

Once more; the College is frankly Christian. It owes its origin and support to men and women of Christian ideals; it cannot, therefore, be other than loyal to these interests. Instead of maintaining a separate Christian life, the College also urgently lays upon its students the obligation of allegiance to that wide democracy of service and uplift which is represented in the Christian Church. The College is, nevertheless, emphatically broad in its hospitality to modern thought. It holds that no student should go out of the College unaware of the throbbing questions of the day or unprepared to face the winds of free discussion; therefore, it welcomes all honest expression of opinion, putting faith in the power of truth to hold its own in the arena of open debate. It thus seeks to resource the coming generation with a leadership of intellectual capacity, directed will and Christian character.

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BUTLER A. WOODFORD	Claremont

Term of Office Expires June, 1932

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GEORGE L. EASTMAN	Hollywood
OWEN F. HAHN	Pasadena
COB C. HARPER	La Jolla
ARVEY S. MUDD	Los Angeles
JOHN TREANOR	Los Angeles

Term of Office Expires June, 1933

ARTHUR M. DOLE	Pomona
CHARLES K. EDMUNDS, PH.D.	Claremont
WILLIAM S. MASON	Evanston, Ill.
ELL A. SCHWEITZER	Los Angeles
ABRAHAM SIBLEY, D.D.	Pasadena

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WILLIAM B. HIMROD
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EDWIN F. HAHN

EDWARD C. HARWOOD

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GEORGE L. EASTMAN

EDWARD C. HARWOOD
WILLIAM S. MASON

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DONALD G. APLIN
LUTHER FREEMAN

JACOB C. HARPER
ARTHUR J. MCFADDEN

FACULTY¹

- HARLES KEYSER EDMUNDS** 345 College Ave.
President, 1928
 B.A., Johns Hopkins University; Ph.D., Johns Hopkins University.
- YRUS GRANDISON BALDWIN** Palo Alto
President Emeritus, 1890.
 B.A., Oberlin College; M.A., Oberlin College. Student, Andover Theological Seminary; D.D., Oberlin College.
- OWIN CLARENCE NORTON** 145 W. Seventh St.
Dean of the Faculty and Professor of the Greek Language and Literature on the Edwin Clarence Norton Foundation, Emeritus, 1888.
 B.A., Amherst College; M.A., Amherst College and Yale University; Ph.D., Carleton College; D.D., Pacific Theological Seminary. Graduate Student, Johns Hopkins, Columbia and Oxford Universities.
- RANK PARKHURST BRACKETT** 270 E. Third St.
Chairman of the Faculty, Professor of Astronomy on the Frank Parkhurst Brackett Foundation and Director of the Observatory, 1888.
 B.A., Dartmouth College; M.A., Dartmouth College; Sc.D., Dartmouth College. Honorary Fellow, Clark University.
- EBE ESTELLE SPALDING** 261 W. Fifth St.
Professor of English Literature on the Phebe Estelle Spalding Foundation, Emeritus, 1889.
 B.L., Carleton College; M.L., Carleton College; Ph.D., Boston University.
- GEORGE GALE HITCHCOCK** 721 College Ave.
Professor of Physics, 1892.
 B.A., University of Nebraska. Graduate Student, Johns Hopkins and Cornell Universities.
- RACE ELLA BERRY** 353 W. Eleventh St.
Associate Professor Mathematics, 1909.
Dean of Women, 1909-1927.
 B.S., Mount Holyoke College; M.A., Mount Holyoke College.
- ILTON ERASTUS CHURCHILL** 507 Yale Ave.
Editor of College Publications, 1902.
 B.A., Knox College; M.A., Knox College; Litt.D., Knox College; B.D., Yale University. Graduate Student, University of Leipzig.

¹ arranged in order of appointment to present rank. The date in each line denotes the beginning of original term of service.

MENDAL GARBUTT FRAMPTON 927 Harvard A.

Professor of the English Language, 1904.

B.A., Illinois College; M.A., Illinois College; M.A., Harvard University. Graduate Student, Harvard and Chicago Universities.

CHARLES GRACCHUS NEELY 739 College A.

Professor of Constitutional History and Law on the Darl Herbert Colcord Foundation, Emeritus, 1911.

B.L., University of Illinois.

WILLIAM ATWOOD HILTON¹ 1293 Dartmouth A.

Professor of Zoology on the Willard George Halstead Foundation, 1905.

B.S., Cornell University; Ph.D., Cornell University.

ROBERT DAY WILLIAMS Mills Ave. N. of Mesa A.

Professor of Experimental Psychology, 1909.

B.S., Pomona College; M.A., Yale University; Ph.D., Yale University. Graduate Student, University of California.

BERNARD CAPEN EWER 706 Indian Hill Bl.

Professor of Psychology, 1916.

B.A., Brown University; M.A., Brown University; Ph.D., Harvard University.

RALPH HAINE LYMAN 357 W. Tenth .

Professor of Applied Music and Instructor in Singing Head of Department of Music, 1917.

B.A., Grinnell College. Student in voice with Karleton Hacke, William B. Olds, Grant Hadley, Arthur Middleton, Courtland Cooper, Holmes Cowper and other American masters and with Vittorino Moratti in Berlin.

MARO BEATH JONES 125 W. Eleventh .

Professor of Romanic Languages, 1911.

B.A., Boston University; M.A., Boston University. Graduate Student, Universities of Chicago, Geneva and Barcelona. Student of Estudis Universitaris Catalans, Barcelona.

WILLIAM EVAN NICHOLL 465 W. Sixth .

Dean of the College and Assistant Professor of Education, 1919.

B.A., Bellevue College; M.A., Columbia University. Graduate Student, Edinburgh University.

HOMER ELMER ROBBINS 487 Harrison A.

Professor of Classical History and Language, 1915.

B.A., University of Michigan; M.A., University of Michigan. Ph.D., University of Michigan. Graduate Student and holder of University and Buhl Classical Fellowships, University of Michigan.

¹Absent on leave, first semester, 1928-1929.

ROBERT CHARLES DENISON 232 W. Fifth St.

Professor of Philosophy, 1920.

B.A., Amherst College; B.D., Andover Theological Seminary;
D.D., Amherst College.

RAYMOND CUMMINGS BROOKS 489 W. Sixth St.

*Professor of Religion on the Nancy M. Lyon Foundation,
1921.*

B.A., Tabor College; B.D., Yale Divinity School; D.D., Tabor
College and Whitman College. Graduate Student, Oberlin College.

BRUCE McCULLEY 236 College Ave.

Professor of English Literature, 1921.

B.A., Hiram College; M.A., University of Chicago; Ph.D., Harvard
University.

WILLIAM KIRK¹ 705 Indian Hill Blvd.

*Professor of Social Economics on the Henry Snyder Foun-
dation, 1922.*

B.A., Johns Hopkins University; Ph.D., Johns Hopkins University.

VILLIAM POLK RUSSELL 506 E. Sixth St.

*Professor of Mathematics on the Joseph W. Fiske Foun-
dation, 1904.*

B.A., Cumberland University; M.A., Cumberland University.
Graduate Student, Columbia, Harvard and Yale Universities.

GEORGE SAMUEL BURGESS 154 E. Tenth St.

*Professor of Law, Secretary of the Faculty and Director
of the Summer Session, 1918.*

B.A., University of Michigan; J.D., University of Michigan.

EUGENE WHITE NIXON 1034 Harvard Ave.

Professor of Physical Education for Men, 1916.

B.A., Monmouth College. Graduate Student, Illinois, California
and Columbia Universities.

RANK WESLEY PITMAN 116 E. Twelfth St.

Professor of History, 1924.

Ph.B., Yale University; M.A., Yale University; Ph.D., Yale Uni-
versity.

OLAND R. TILESTON 1129 Dartmouth Ave.

Professor of Physics, 1925.

B.A., Dartmouth College; M.A., Dartmouth College; D.Sc., Colo-
rado College.

USSELL McCULLOCH STORY 127 W. Eighth St.

Professor of Political Science, 1925.

B.A., Monmouth College; M.A., Harvard University; Ph.D., Har-
vard University.

CHARLES TABOR FITTS 826 Harvard Av
Registrar and Assistant Professor of English, 1919.
 B.A., Amherst College; M.A., University of California.

WILLIS HOLMES KERR 470 W. Seventh S
Librarian, 1925.
 B.A., Bellevue College; M.A., Columbia University. Graduate Student, Edinburgh University.

PHILIP ALEXANDER MUNZ 1165 Indian Hill Blv
Professor of Botany on the Henry Kirke White Bent Foundation, 1917.
 B.A., University of Denver; M.A., University of Denver; Ph.D. Cornell University. Graduate Student, University of Chicago.

AUBREY AUGUSTUS DOUGLASS 275 W. Tenth S
Professor of Education, 1926.
 B.A., Kansas State Teachers College; M.A., Clark University. Ph.D., Clark University.

KENNETH DUNCAN 1120 Harvard Av
Professor of Economics on the Stedman-Sumner Foundation, 1926.
 B.A., Wabash College; M.A., University of Wisconsin; Ph.D. University of Michigan.

GEORGE A. SANFORD 438 W. Twelfth S
Professor of Military Science, 1926.
 B.A., Kenyon College. Major, Infantry, U. S. Army.

ALFRED OSWALD WOODFORD 639 Yale Av
Professor of Geology, 1915.
 B.A., Pomona College; Ph.D., University of California.

JESSIE EDITH GIBSON 860 Dartmouth Av
Dean of Women on the Martha N. Hathaway Foundation, 1927.
 B.A., University of Idaho; M.A., University of Washington. Graduate Student, California and Columbia Universities.

CHARLES JUDSON ROBINSON 809 Indian Hill Blv
Professor of Chemistry, 1927.
 B.S., Illinois Wesleyan University; Ph.D., Johns Hopkins University.

MORRILL L. ILSLEY 143 E. Tenth S
College Physician, 1928.
 B.A., Colby College; M.D., Johns Hopkins University; Dr.P.H. Johns Hopkins University.

ROBERT JOHN TAYLOR 1279 Yale Ave.

Director of Extension Work in Religious Education and Acting Professor of Comparative Religion, 1923.

B.A., Hamline University; M.A., University of Southern California; D.D., Hamline University.

THOMAS D. ELIOT 1277 College Ave.

Acting Professor of Sociology, 1928.

B.A., Washington University; M.A., University of Pennsylvania; Ph.D., Columbia University.

JOSEPH PIJOAN¹ Cor. Via Zurita and Via La Selva

Adjunct Professor of Hispanic Civilization and Lecturer on the History of Art, 1924.

Lic. Architecture and Letters, University of Barcelona. Student, University of Rome.

GEORGE WILLIAM HUNTER 210 E. Mesa Ave.

Adjunct Professor of Biological Science, 1926.

B.A., Williams College; M.A., Williams College; Ph.D., New York University.

EDWARD MCCHESNEY SAIT 1336 E. Villa St., Pasadena

Adjunct Professor of Political Science, 1928.

B.A., Toronto University; M.A., Toronto University; Ph.D., Columbia University.

WALTER ALFRED ALLEN 272 E. Second St.

Associate Professor of Musical Theory and Appreciation, and Instructor in Organ, 1912.

B.A., Beloit College; B.Mus., Yale University. Associate, American Guild of Organists.

EDWARD TAYLOR 1022 Harvard Ave.

Associate Professor of Engineering, 1920.

C.E., University of Minnesota; M.A., University of Southern California. Graduate Student, University of Oregon.

VERETT SAMUEL OLIVE 136 W. Seventh St.

Associate Professor of Piano, 1923.

B.Mus., Simpson College. Graduate Student, Simpson College. Pupil of Moritz Mayer-Mahr and Mme. Teresa Carreno in Berlin.

LIOTT CURTIS LINCOLN 365 E. Eighth St.

Associate Professor of English Literature, 1924.

B.A., Colby College; M.A., State College of Washington and Harvard University.

¹ Absent on leave, first semester, 1928-1929.

BENJAMIN DAVID SCOTT

828 College Ave

Associate Professor of Public Address, 1923.

B.A., University of Southern California; S.T.B., Boston University; Ph.D., Boston University. Graduate work, Boston, Brown and Harvard Universities.

JOSEPH WADDELL CLOKEY

351 E. Eighth St

Associate Professor of Organ, 1926.

B.A., Miami University. Graduate, Cincinnati Conservatory of Music.

DIETRICH NEUFELD

807 College Ave

Associate Professor of German, 1928.

Ph.D., University of Jena.

ELIZABETH KELLEY

157 E. Tenth St

Associate Professor of Physical Education for Women, 1907.

B.A., University of Wisconsin; M.A., New York University.

ROBERT TRESILIAN BELCHER

452 W. Sixth St

Assistant Professor of Mathematics and Engineering Emeritus, 1907.

B.A., Queen's University. Graduate Student, Queen's College and University of California.

CLIFFORD NOTT HAND

1045 Yale Ave

Director of Religious Interests, 1919.

B.L., Pomona College; B.D., Pacific School of Religion; M.A., University of Southern California. Graduate Student, University of California.

ARTHUR BABCOCK

1133 Yale Ave

Assistant Professor of Singing, 1921.

Graduate of the New England Conservatory of Music. Member of faculty of the New England Conservatory of Music. Pupil of Sbriglia, in Paris.

RALPH RAYMOND UNIACKE

160 W. Eleventh St

Assistant Professor of Violin, 1923.

Pupil of Franz Milcke.

MARY BROOKS EYRE

246 Dartmouth Ave

Assistant Professor of Psychology, 1924.

B.A., Stanford University; M.A., Stanford University.

REGINALD R. BACON

480 Alexander Ave

Assistant Professor of Military Science and Tactics, 1927.

B.S., Agricultural College of Utah. Captain, U. S. Army.

- WILLIAM HENRY COOKE 219 W. Sixth St.
Assistant Professor of History, 1927.
 B.A., Pomona College; M.A., Pomona College; Ph.D., Stanford University.
- ROGER WILLIAMS TRUESDAIL 430 W. Sixth St.
Assistant Professor of Chemistry, 1927.
 B.A., University of Redlands; M.S., University of Oregon; Ph.D., University of Washington.
- PAUL LUTHER KARL GROSS¹
Assistant Professor of Chemistry, 1926.
 B.S., University of Chicago; M.S., University of Chicago; Ph.D., University of Chicago.
- FRANCIS GARRITT GILCHRIST 346 Harvard Ave.
Assistant Professor of Zoology, 1924.
 B.A., University of California; Ph.D., University of California.
- DOLVIN HEATH 270 W. Twelfth St.
Assistant Professor of Physical Education for Men, 1922.
 B.A., Pomona College. Graduate Student, Pomona College.
- ROBERT LOBINGIER STREHLE 1019 Dartmouth Ave.
Assistant Professor of Physical Education for Men, 1923.
 B.A., Pomona College. Graduate Student, Pomona College.
- WILLIAM ALBERT NOYES, JR.¹ 709 College Ave.
Acting Assistant Professor of Chemistry, 1928.
 B.A., Grinnell College; D.Sc., University of Paris.
- ABLE CLAIR WEST 460 W. Tenth St.
Instructor in Piano, 1905.
 B.S., Pomona College. Graduate Student, Peabody Conservatory of Music, Baltimore. Pupil of Ernest Hutcheson.
- SA FRIEDA BISSIRI 256 W. Sixth St.
Instructor in French, 1920.
 B.A., Kreuzlingen College, Switzerland.
- ARION JEANETTE EWING 487 W. Sixth St.
Assistant Librarian, 1912.
 B.A., Olivet College; B.S., Simmons College; M.A., Boston University.
- FRANCIS RAYMOND IREDELL 120 E. Eleventh St.
Instructor in Philosophy, 1925.
 B.A., Pomona College; M.A., Harvard University.

MARY D. BIGELOW Miramar and Mills Ave
Instructor in Physical Education for Women, 1925.
 Graduate, Department of Hygiene, Wellesley College.

MARGARET HUSSON Marylind Av
Instructor in Spanish, 1925.
 B.A., University of Kansas; M.A., Columbia University.

EARL JAY MERRITT Smiley Ha
Instructor in Physical Education, and Freshman Class Adviser, 1925.
 B.A., Pomona College.

JAY PLOWE 1403 Alta Vista, Los Angel
Instructor in Flute, 1925.

MARJORIE CARVER WEIRICK 1704 La Senda Pl., So. Pasader
Instructor in Cello, 1925.
 B.S., Pomona College. Graduate, Institute of Musical Art. Pupil of Hans Willeke in New York.

HOPE TABER FORD CLOKEY 351 E. Eighth S
Instructor in Voice, 1926.
 B.A., Oberlin College.

THOMAS MONTAGUE BEGGS 1250 Amherst Av
Instructor in Art, 1926.
 B.F.A., Yale University. Graduate, General Art Course at Pratt Institute.

HAROLD DAVIS 248 E. Twelfth S
Instructor in English, 1927.
 B.A., Stanford University; B.A. and B.Litt., Oxford University.

MILO LIVINGSTON WOOD 428 Yale Av
Instructor in English, 1927.
 Ph.B., University of Chicago; M.A., Harvard University. Graduate Student, Harvard University.

JESSE JOSEPH COLEMAN 870 N. Towne Ave., Pomona
Instructor in Public School Music, 1927.
 B. Mus., Chicago University. Pupil of Percy Rector Stephens and DeWitt Durgin Lash.

RAMSAY LORD HARRIS 1102 College Av
Instructor in English, 1927.
 B.A., Colgate University; Graduate student, Rochester Theological Seminary, Universities of Rochester, Redlands and Southern California.

- HATTIE C. MCCONNAUGHEY** 260 E. Seventh St.
Cataloger, 1924.
 B.A., Hillsdale College; B.Pd., Hillsdale College; Graduate Student, University of Michigan and Pomona College.
- MARY CAROLINE BLAISDELL** 159 W. Seventh St.
Instructor in Dramatics, 1927.
 B.A., Pomona College; M.A., George Washington University.
- NORMAN THEODORE NESS** 490 W. Central Ave.
Instructor in Economics, 1928.
 B.A., Carleton College; M.A., University of California.
- LOREN M. HENDRICKSON** 487 Harrison Ave.
Instructor in Romanic Languages, 1928.
 B.A., Pomona College.
- EMILIE ELIZABETH WAGNER** 256 W. Seventh St.
Instructor in German, 1928.
 B.A., Smith College; M.A., Pennsylvania State French School.
- HOWARD BENNETT KASTER** 260 E. Third St.
Instructor in Astronomy, 1928.
 B.A., University of California. Graduate Student University of California.
- BERNICE VAN GELDER** 127 E. Twelfth St.
Instructor in Physical Education for Women, 1928.
- LOREN ADAIR** 452 W. Eighth St.
Instructor in Music, 1928.
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SUMMER SESSION 1928

Visiting Faculty

- MOLLIS P. ALLEN**
Lecturer in Education.
 B.A., Pomona College; M.A., Stanford University. Graduate, Santa Barbara State Teachers College. Assistant Superintendent and Director of Child Welfare, San Bernardino.
- MILDRED RICCIARDI**
Instructor in English.
 B.A., Washington State College. Student at the University of Mexico. Director of Immigrant Education, Santa Ana.

CLASS OFFICERS AND FACULTY COMMITTEES

1928-1929

CLASS OFFICERS

GENERAL—Nicholl

SENIOR—Denison, Robbins

JUNIOR—Ewer, Robinson

SOPHOMORE—Iredell, Woodford

FRESHMAN—Nicholl, Gibson, Merritt

COMMITTEES

ADMINISTRATION—Brackett, Ewer, Tileston, Lyman, Munz, Gibson,

ADMISSION—Fitts, Nicholl, Gibson, Williams.

ATHLETIC COUNCIL—Nixon, Strehle, Russell, Lincoln and three student representatives.

ATHLETIC CONFERENCE—Russell, Lincoln, Nixon.

CLASSIFICATION—Fitts, Williams, Robbins, Berry, Iredell.

COLLEGE LIFE—Nicholl, Gibson, Denison, Merritt.

Horace Kennedy, Pres. Assoc. Students; Mary Jo Phillips
Vice-President Assoc. Students, ex-officio consulting members on call.

CONVOCATION—Brackett, Nicholl, Burgess, Story.

COURSES OF STUDY—McCully, Burgess, Woodford, Tileston, Russell
Fitts.

HEALTH—Ilsley, Nixon, Kelley, Nicholl, Gibson, Eyre, Hunter.

HONORS—Pitman, Robbins, Frampton, Nixon, Story, Munz, Woodford.

LECTURES, PUBLIC EVENTS AND COMMENCEMENT—Scott, Nicholl
Burgess, Lyman, Howard.

LIBRARY—Duncan, Kerr, Ewing, Lincoln, Jones, Robinson, Burgess

PUBLICATIONS—Hand, Bernard, Kerr, Burgess, Lincoln, Glen Turner.

RELIGIOUS INTERESTS INCLUDING CHAPEL—Brooks, Scott, Lyman
Nicholl.

ROOMS—Burgess, Nicholl, Story.

STUDENT AID—Hand, Nicholl, Gibson, Cooke.

ADMISSION

GENERAL REQUIREMENTS AND METHODS OF ADMISSION

It is the purpose of Pomona College to do a distinctly and notably high grade of work, thus preparing its graduates for special distinction in whatever later callings they may choose. To this end candidates for admission to any class must present satisfactory evidence of their fitness for college, both in character and in scholarship. Testimonials of character and a letter of honorable dismissal from the last institution attended are required.

It is further advised that applications be made as early as possible, inasmuch as the College cannot under present conditions guarantee the admission of more than two hundred to the freshman class, the trustees having limited the total attendance to eight hundred.

The College welcomes tentative applications from prospective freshmen several years in advance and is glad to offer suggestions from time to time regarding the best preparation for admission. In this respect the good offices of the College are freely at the service of all interested inquirers. Formal applications should be accompanied by a fee of two dollars and fifty cents. A medical examination conducted by an authorized physician, under the direction of the College, is required of all students.

An applicant for admission, immediately upon receipt of notification of acceptance, is required to make a deposit of twenty-five dollars on the tuition of the first semester.

ADMISSION TO FRESHMAN STANDING

Applicants are admitted to freshman standing in any one of three ways, as follows:

First: Examination by the College.

Second: Certificate of the College Entrance Examination Board.

Examinations are given by the College Entrance Examination Board at certain times and places, which may be learned from the Registrar or from principals of secondary schools.

Third: Certificate from approved schools or colleges.

Students from approved schools or colleges are admitted without examination on presentation of a certificate signed by the principal or proper official and showing in detail the requisites completed courses. Certificate blanks obtained from the principal should be filled out and returned as early as possible after the completion of the high school year.

ENTRANCE UNITS

Fifteen units of recommended work is the normal requirement for admission. In rare cases an applicant offering twelve recommended units, supplemented by special recommendations of principals and references and by scholastic aptitude tests of a quality indicative of ability to do college work with success, may be accepted.

A "unit" represents a course of study in one subject of high school grade involving five forty-five minute recitations per week or an equivalent for a school year. Laboratory periods should be at least twice the length of recitation periods.

Not less than one unit in any subject is normally accepted though a half unit may be accepted when accompanied by unit for courses in allied subjects.

ENTRANCE SUBJECTS REQUIRED

English, 3 units

ENTRANCE SUBJECTS RECOMMENDED

Although English is the only subject specifically required, applicants will find it to their advantage to present the following as part of the fifteen units required: at least 2 units of one foreign language; 1 unit each of history, algebra, geometry, and laboratory science; and 3 or more units of electives from the following subjects, English, foreign language, history, mathematics, and laboratory science.

Those are matriculated to full standing who at the end of semester's residence meet the requirements (*see* Matriculation)

Those who do not meet the requirements are not allowed to matriculate and are enrolled as in partial standing. No student in partial standing is recommended to college standing in another institution. The final acceptance of entrance units is based upon the character of the work done in class at Pomona College as well as upon the grade of the units presented.

ADMISSION TO ADVANCED STANDING

Students who have sufficient credit from other institutions are admitted to advanced standing on credentials signed by the proper officials and giving full specifications concerning the nature of the courses taken and the time spent in each, together with their rank in each subject. They are assigned hours and credits on the basis of their credentials, but such assignment is provisional until ratified by the Classification Committee. This ratification is not given until after the required semester's residence, at which time the Committee has power to act in adjusting hours or credits, both, to the qualifications shown.

ADMISSION AS SPECIAL STUDENTS

Mature students, ordinarily only such as are at least twenty years of age, may be admitted as special students to courses in which, by ability and preparation, they may be fitted. This provision applies particularly to those equipped for advanced studies in special departments. The privilege of classification as special students is not open to those who seek admission to College in this way as a means of avoiding compliance with the entrance and collegiate requirements laid down for regular students. Special students are not candidates for a degree.

Credit, varying in amount with the individual courses, is granted for graduate work in approved High Schools.

REGISTRATION

All students are required to register on one of the regularly announced days of registration preceding the opening of the

class work of each semester. A fee of two dollars is charge for later registration and a payment of one dollar for any change in the list of subjects chosen. This latter payment is remitted in the case of new students registering for the first time, provided the changes are made within a week of the opening day of the registration period.

Students are admitted to those courses only for which they are formally registered.

Students are not received later than the last day set for change of schedule.

MATRICULATION

Matriculation implies the meeting of all entrance requirements and the proven ability to carry college work. To this end the standing of all new students is provisional until after they have been in residence for one semester. At that time those who have been matriculated who have shown themselves in accord with the spirit of the College, who have done a satisfactory quality of work during their semester of residence and whose entrance examinations are acceptable.

Students are not candidates for a degree nor are they eligible for recommendation to college standing in another institution until they have been matriculated. Students are matriculated only after they have come into full standing. All students must be matriculated before attaining to Junior standing.

ELECTION OF COURSES

On or before the first Saturday in January after the Christmas recess, and the first Saturday in June, all resident students must fill out a schedule listing their choice of subjects for the following semester.

Changes from this schedule may be made upon the payment of a fee of one dollar. Failure to prepare such a schedule at the appointed time subjects the student to a fee of two dollars. Students may not elect less than twelve hours of work without the special permission of the Classification Committee.

CURRICULUM

DEGREE OF BACHELOR OF ARTS

The courses of study offered lead to the degree of Bachelor of Arts under the following hour and credit requirements.

HOURLY REQUIREMENTS

One hundred and twenty-six hours of work are required for graduation. An "hour" consists of one recitation or lecture period, or one laboratory period a week for one semester. A recitation or lecture period covers fifty minutes; a laboratory period covers, in general, the time of three such periods. In order to complete the course in four years one must take an average of fifteen hours of academic work per semester throughout the four years.

CREDIT REQUIREMENTS

In order to graduate a student must not only earn a certain number of hours, but also attain an average of at least C grade in those hours. To this end a certain number of credits is ascribed to each grade as a basis of determining average grade. The scale is so adjusted that the number of credits required for graduation coincides with the number of hours. Details regarding credits are published in *The Manual of Procedure*.

CHOICE OF SUBJECTS

In the selection of his work the student is given a large range. The only limitations are such as will insure to him, on the one hand, the breadth of view which may be gained by an introductory study of each of the great realms of knowledge; and, on the other, that concentration along some chosen line of work which will develop power of thought and an actual fund of knowledge in some particular field. To this end the following general requirements for graduation have been approved.

GENERAL REQUIREMENTS FOR GRADUATION

1. *FOR THE LOWER DIVISION:*

1. SPECIFIC REQUIREMENT: 4 hours of Physical Education (Activities.)

Note: For two of these hours work in Military Science may be substituted.

2. LIMITED ELECTIVE: 48 hours; election subject to the following principles of distribution:

- a. Not less than 12 hours of work in each of the following sections (A, B, C).

- b. Not less than 6 hours additional in each of two of the following sections (D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z).

It is further provided that each student's program during these two years shall give recognition (by not less than 6 hours of work) to each of five of the more limited groups (I-VII).

Section A.

Group I. Art; Music (Theory and Appreciation).

II. English; Public Address.

III. French; Italian; Spanish; German; Greek; Latin.

Section B.

Group IV. Biology; Botany; Zoology.

V. Mathematics; Chemistry; Physics; Astronomy; Geology; Engineering Science.

Section C.

Group VI. Economics and Sociology; Political Science and Law; History

VII. Philosophy; Psychology; Religion.

3. FREE ELECTIVE: 12 hours; election to be made from courses in any of the above named departments, General Hygiene (Physical Education 5), and the courses in Military Science.

2. *FOR THE UPPER DIVISION:*

1. SPECIFIC REQUIREMENT: 2 hours of Physical Education (Activities.)

2. LIMITED ELECTIVE: 60 hours, election subject to the following principles of distribution:

- a. Each student shall complete during each semester of his junior year at least one course (not less than 2 hours) in each of three of the following nine departmental groups:

Groups I to VII, as above.

Group VIII. Education; Physical Education.

Group IX. Military Science.

- b. Each student shall complete for graduation not less than 36 hours of C and D work at least 12 of which shall be of D rank.

In view of the fact that there is no general requirement in foreign language it seems well to call attention to the fact that a reading knowledge of some foreign language (usually French or German) is required of students concentrating in most departments of the college.

CONCENTRATION IN SPECIAL FIELDS

For the student who wishes to work out a collegiate program with some considerable emphasis on a particular subject or field there are prescribed (in addition to the "General Requirements for Graduation") certain groupings of courses and lines of study.

1. Not less than eighteen hours of Upper Division (C and D) work in the field of concentration; six of these eighteen hours must be of D rank, and six of them must be taken during the senior year.
2. Sufficient Lower Division (A and B) work in the special field and in allied fields to ensure adequate preparation for carrying successfully the Upper Division work aimed at.
3. (In most cases) A reading knowledge of at least one foreign language—usually French or German.
4. (In some cases) A final "comprehensive examination" covering the entire field in which the student's concentration lies.

The application of these regulations involves to such a degree a recognition of differences between fields of learning and between individualities of students that no brief statement should be thought of as complete. Persons interested are therefore advised to consult as early as possible the departmental or divisional authorities in charge of the fields of their special interests.

HONORS

The four-year course offered by the College leads, as a rule, to the bachelor's degree in ordinary, or *rite*. Students of ability are invited to undertake the achievement of the degree with honors. The honors offered by the College are of two classes and the provisions leading to them are correspondingly of two types. In each case, however, the premium is given to initiative, originality and independence of thought.

By the end of his freshman year each student is required to choose between candidacy for the degree in ordinary and candidacy for the degree with honors. (Students in ordinary who wish

to change to the rating of honors students after the beginning of the sophomore year are permitted to do so, provided that the showing in scholarship is sufficiently good to gain the approval of the Honors Committee, which has charge of the entire matter. Also, honors students who fail to maintain the grade of scholarship demanded by the Honors Committee will be demoted to the rating in ordinary.) The basic idea is that of enlisting the initiative, and consequently the full power, of the student in the enterprise of his own education. The honors student is permitted to register for twelve hours each semester in place of the standard fifteen, the higher *quality* of his achievement being regarded as a sufficient offset for the reduced *quantity* when counted toward the total requirement (126 hours) for graduation. He is given greater freedom and is invited into especially close relations with his teachers. He is one to whom much is given and of whom much is expected. If, and when, he completes his collegiate program to the satisfaction of the Honors Committee, under whose supervision he works, he receives from the College his degree *cum laude*, *magna cum laude*, or *summa cum laude*, the measure of honor given being dependent on the merits of his case.

To the student of unusual ability there is extended at the beginning and at the middle of his junior year the additional privilege of "reading for honors" in the field of his special interest under the personal direction of a professor of his own choosing; the arrangement being one of mutual agreement, the initiative coming from either side, supervision of the entire matter resting with the Honors Committee. Here again, there is a reduction in the *quantity* of the student's program for the sake of *quality*, and a very great increase in the freedom accorded the student and in the intimacy of relationship with his teachers. Candidates who pursue this special type of program with satisfaction to the Committee are graduated with Honors or High Honors in their respective fields of specialization, the measure of honor again being dependent on the merits of each case.

For more detailed information regarding these two types of programs leading to honors at graduation students are referred to special statement published as a pamphlet by the Honors committee.

COURSES IN MUSIC AND ART

The College is equipped to offer unusual privileges in the departments of Art and of Theoretical and Applied Music. The influence of the College is greatly enriched by the contributions made through these departments to the cultural life of the institution as a whole. In Bridges Hall the great musicians of the world are heard, all students being supplied with admission to their concerts. Great enlargement of life comes through intimate acquaintance with these arts, both in theoretical and applied forms, and the College urges all regular students to include them, at least to some degree, in their cultural courses, credit toward the B.A. degree being granted on conditions specified under the detailed description of the courses.

TEACHERS' CERTIFICATES

The College meets the requirements of the State Board of Education for the State Certificate, enabling those recommended by the College to teach in the public elementary and junior high schools of the State of California.

SUMMER SESSION

The summer session presents a series of selected courses from the college curriculum for the benefit of undergraduate and graduate students. It provides in addition an enlarged program in the Department of Education for the special benefit of teachers who wish to secure the various types of certificates for teaching in California.

In the Laguna Beach division of the summer session, the Department of Zoology conducts work under especially fortunate conditions at the Laguna Beach Marine Laboratory, Professor W. A. Ryon, Director.

MUSIC AND DRAMA COURSE

In order to insure to the entire student body the opportunity of hearing and seeing the great artists of the day whose public appearance is usually confined to the larger cities, the College introduces each year a group of the most distinguished masters in the various departments of achievement. For the concerts and other entertainments thus afforded an annual ticket is furnished to every student.

LECTURE FOUNDATIONS

THE JOSEPH H. JOHNSON FOUNDATION

The Joseph H. Johnson Foundation, liberally endowed by Miss Ellen B. Scripps, provides an annual income for the purpose of furnishing to the College for a protracted stay an intimate participation in college life notable educators from other institutions. By this means such educators are annually in residence in Pomona College. The opportunity of intimate contact with distinguished instructors thus afforded to undergraduates is a unique privilege, often surpassing the privilege of the classroom of the institution from which these educators come.

THE HENRY D. PORTER FOUNDATION

The Henry D. Porter Foundation, named in honor of the late Rev. Henry D. Porter, for many years a missionary in China, secures to the institution annually, the extended stay of some prominent worker in the field of Christian Missions. The lecturer upon this foundation commonly shares in the regular classroom work related to the history, geography, politics and religion of the region in which he has been actively at work. This vivid representation of the missionary life is one of the most stimulating features in the spiritual program of the College.

THE CLARK FOUNDATION

The Clark Foundation makes it possible for the College to offer each year a lecture or course of lectures in the general field of religion.

COURSES OF INSTRUCTION

DESIGNATION OF COURSES

The letter preceding the number in the designation of a course indicates in general its grade. Elementary courses, designated by A (as English A1) are given in Freshman or sophomore year; B courses are either those which follow the courses of earlier years or the more advanced beginning courses; C and D courses are advanced courses given to Juniors and Seniors, D courses being the more difficult. The natural sequence of courses is from A to B, B to C, and C to D, and a student may not enter a C or D course without previous work in the same line.

Courses with numbers below 100 are underclass courses; those numbered from 100 to 199 are for Juniors and Seniors; those numbered over 200 are not open to students of less than junior standing. Properly qualified Seniors may be enrolled in these courses with the consent of the instructor.

Any course may be withdrawn if the enrollment is less than

in departments where one-hour courses are offered, two such courses should be completed to secure the counting of hours and credits towards graduation.

When courses in different semesters have the same general number and are connected by a hyphen thus, B1a-B1b, they have a common subject and the entire sequence should be taken. If, however, they are connected by a comma, thus, B1a, B1b, although the course extends throughout the year, independent credit is given for the work of the first semester and the first course may be followed by some allied subject instead of the next course in the sequence. Entrance to the second semester course requires permission of the instructor.

All courses are three hours each unless otherwise designated.

Roman numerals show the periods of recitations. Two courses with the same Roman numerals cannot be taken contemporaneously unless the numerals are preceded by different letters (as *M* or *W*), showing that the classes meet on different days of the group.

	7:30	8:30	9:55	10:55	1:15	2:15	3:
<i>MWF</i>	I	III	V	VII	IX	XI	XIII
	7:30	8:30	9:30	10:30	1:15	2:15	3:
<i>TThS</i>	II	IV	VI	VIII	X	XII	XIV

Hours to be arranged—*A*.

If a letter precedes the numeral, the class meets only on the day of the group.

ART

A fee of \$18 is charged for each hour of credit except courses B100, C111a, C111b, D219a, D219b.

A1a-A1b. Design. BEG

A study of the elements of design in primitive art and historic ornament, and their application to various types of original commercial designs. 2 hours. Class, *TTh*, *VI*; laboratory, *Th*, *VIII*, or *A*.

A2a-A2b. Drawing. BEG

Study of the theory of perspective with practice in outdoor sketching. Still-life in charcoal and work in pen-and-ink and color are included. 2 hours. Class, *TTh*, *XII* Laboratory, *Th*, *X*, *XIV*, or *A*.

B11a-B11b. Drawing and Design. BEG

Drawing from still-life and cast combined with work in water color and tempera. Pictorial composition is studied as applied to illustration in black and white and color. 2 hours. Class, *TTh*, *IV*; laboratory, *TTh*, *VI*, *VIII* or *A*.

B100. Art Interpretation. BEG

A course for students wishing to know how art applies in everyday life. A study of art in the home and community. 2 hours. *WF*, *VIII*.

111a, C111b. History and Appreciation of Art. PIJOAN

A general history of art from the stone-age to the present. The art of primitive peoples and the Orient, the Classic, Early Christian, Byzantine and Medieval periods will be studied in the first semester, and the Renaissance, Baroque, Neo-Classic, Romantic, Realistic and Contemporary art in the second. (*Withdrawn in the first semester 1928-1929.*) *III.*

20a-C120b. Advanced Drawing and Design. BEGGS

A course in still-life painting in oil. The composition of easel pictures and mural decorations is considered. Problems involving the theory of the design of mosaic, stained-glass and fresco are also offered. 2 hours. Class, *TTh, X*; laboratory *XII, XIV* or *A*.

219a-D219b. Teaching of Art. BEGGS

A general course in methods of art teachers in public schools. The principles of design, color and drawing demonstrated by problems. 1 hour. *M, V.*

ASTRONOMY**a-B1b. General Astronomy. BRACKETT and KASTER**

A non-mathematical course dealing with the general facts of astronomy, including regular observations at the Observatory; designed for students who have only elementary preparation in physics or chemistry and mathematics. Classroom, two hours a week; lecture and observatory, amounting to one period a week. Laboratory fee, \$3.00 per semester. *VII.*

01. Essentials of Astronomy. BRACKETT and KASTER

A special course in the essentials of the subject, designed for students who have a working knowledge of analytic geometry and calculus and of the more important principles of physical science. Classroom, two hours a week; lecture and observatory amounting to one period a week. Laboratory fee, \$3.00. First semester. *IV.*

02. Cosmogony. BRACKETT

Systems of cosmogony and evolution. Kantian, Laplacian and other historical theories compared with modern hypotheses based upon present knowledge of the constitution of the stars and their motions. Prerequisite: Astronomy B1 or C101. Second semester. *IV.*

03a. The Sun. BRACKETT

A more detailed study of the sun and its constitution, including observations with the 40-foot horizontal telescope. Laboratory fee, \$5.00. First semester. *VIII.*

C103b. Variable Stars and Binaries.**BRACKET**

Systematic observational study of certain variable and binary stars, with construction of light curves, and discussion of their classification and origin. Laboratory fee, \$5.00. Second semester. *VIII.*

D104. Theoretical and Practical Astronomy.**KASTE**

Some phase of theoretical or practical astronomy, such as the determination of time, latitude, and longitude. Classroom one hour a week; lecture and observatory amounting to two periods a week. First semester. Fee, \$5.00. *A.*

D105. Celestial Mechanics.**KASTE**

Applications of the principles of mechanics to the motions of heavenly bodies, with special problems such as the computation of orbits or the determination of the circumstances of eclipses. Second semester. *A.*

Note: Either the Series D104 and D105 or D106 will be offered each year as demand warrants. Both will not be offered.

D106a-D106b. Astrophysics.**BRACKET**

A practical course in the spectrographic study of the sun and stars. Laboratory fee, \$8.00 per semester.

D230. Investigations in Astronomy.**BRACKET**

Investigation in a particular field such as variable stars or solar physics, or in some phase of astrophysics. Each semester. 1-4 hours. May be repeated for credit. *A.*

BIOLOGY**A1a-A1b. General Biology. HILTON, MUNZ and ASSISTANT**

A general course for either those who intend to take further biological work or those who wish but one year. It may be taken for credit only by students who have had no high school biology, botany or zoology. Class, *TTh, VIII*; laboratory, *MTWTh, or F, 1:15-4:10*. Laboratory fee, \$6.00 each.

C105. Bacteriology.**MUN**

General study of important bacteria, methods of culture and study, and importance in disease and agriculture. Prerequisite: one year of biological work. First semester. Class, *W*, laboratory, *WF, 1:15-4:10*. Laboratory fee, \$8.00. Breakage deposit, \$5.00. Alternates with C107.

C107. Genetics.**MUN**

Course covering modern developments in the study of heredity and evolution and the application in plant and animal breeding.

and in improvement of mankind. Prerequisite: one year of biological work. First semester. Class, *MW, I*; laboratory, *W, 1:15-4:10*. Laboratory fee, \$5.00. Alternates with C105. (*Omitted in 1928-1929.*)

108. Bionomics.

HILTON

A course in the history of biological progress, including modern problems in evolution, heredity and eugenics. It is open to Juniors or Seniors who have had a year of biological work. May be taken with Zoology D131 for three hours. Second semester. 2 hours. *MW, I*.

219. Teaching of Biological Sciences.

HUNTER

For those who expect to teach Botany, Zoology or Biology. Discussions of teaching methods in the biological sciences together with a consideration of material and equipment needed for such work. Second semester. 2 hours. *TTh, II*.

BOTANY

21a-B21b. General Botany.

MUNZ

A general treatment of structure and life-processes of plants, giving a picture of plants as living organisms. A survey of the plant kingdom, giving the steps in the evolution series. Both laboratory and field work. Prerequisite: Biology A1 or high school biology or botany or zoology. Class, *MW, VII*; laboratory, *Th, 1:15-4:10*. Laboratory fee, \$6.00 a semester.

121. Plant Histology and Anatomy.

MUNZ

Study of plant anatomy with special reference to the vascular and other tissues from the evolutionary point of view. Prerequisite: General Botany. First semester. Class, *TTh, II*; laboratory, *T, 1:15-4:10*. Laboratory fee, \$5.00. Alternates with C123. (*Omitted in 1928-1929.*)

123. Plant Physiology.

MUNZ

Nutrition and life-processes in the plant; a discussion of such topics as absorption, conduction, transpiration, photosynthesis, respiration, fermentation, etc. A foundation course for work in horticulture and agriculture. Prerequisite: General Botany. Second semester. Class, *T, II*; laboratory, *TTh, 1:15-4:10*. Laboratory fee, \$8.00. Breakage deposit, \$5.00. Alternates with C121.

126. Taxonomy.

MUNZ

Study of our local flora and of classification methods. Much field work, with trips to coast, mountains and desert for study of plants in their native conditions. Prerequisite: General

Botany. Second semester. Class, *M, I*; laboratory, *MW*, 1:15-4:10. Laboratory fee, \$7.00. Alternates with D128. (*Omitted in 1928-1929.*)

D128. Comparative Morphology.

MUNZ

Comparative morphology of green plants, especially of the Bryophytes and Pteridophytes. Prerequisite: General Botany. Second semester. Class, *MW, I*; laboratory, *M*, 1:15-4:10. Laboratory fee, \$7.00. Alternates with D126.

D131. Botanical Problems.

MUNZ

Special work, largely individual, and primarily for majors in the department. Each semester. 1 to 3 hours. May be repeated for credit. Permission of instructor necessary for registration. Laboratory fee, \$2.00 for each hour of credit.

CHEMISTRY

A1a, A1b. A Survey of Chemical Science.

ROBINSON

Intended especially for those who are planning no further work in chemistry, but with Chemistry B2 may serve as preparation for advanced courses. The course covers in a historical and non-mathematical way the fundamental concepts of the nature of matter, the principles of chemical behavior and the place of chemistry in human affairs. No laboratory. *V*. Fee, \$2.00 each semester to defray expenses of lecture demonstrations.

B2. Experimental Inorganic Chemistry

ROBINSON, GROSS

To accompany or to follow Chemistry A1b; intended, in lieu of Chemistry B3, for those who are planning to take more advanced courses in chemistry. Laboratory work similar to that of B3a, b, and also assigned problems and studies of chemical behavior. Either semester. 2 hours. Laboratory, *TTh*, 1:15-4:10. Laboratory fee, \$10.00.

B3a, B3b. Inorganic and Elementary Theoretical Chemistry.

GROSS

Prerequisites: Entrance Chemistry, or consent of instructor. Descriptive chemistry according to the general plan of the periodic system, including also the development of modern ideas of electrons, atoms, molecules, and ions, and such theoretical aspects of physical chemistry as the gas laws and the behavior of matter considered on a partially mathematical basis. Class, *TTh*, *II*. Laboratory, *T or Th*, 1:15-4:10. Laboratory fee, \$6.00 each semester.

B6. Qualitative Analysis.

TRUESDALE

Prerequisite: Chemistry B3 or A1 and B2. A lecture and laboratory course designed to give the student a knowledge of the

fundamentals underlying the properties and uses of the metallic elements, as well as the systematic qualitative analysis of the more common metals and acids. First semester. Class, *Th, VIII*; laboratory, two periods; *TTh, 1:15-4:10*. Laboratory fee, \$10.00.

7. Elementary Quantitative Analysis. TRUESDAIL

To be preceded or accompanied by Chemistry B6. Designed to give the student training in some of the fundamental and simpler methods of both volumetric and gravimetric analysis. Class period used to discuss the principles and problems involved in quantitative analysis. Each semester. Class, *T, VIII*; laboratory, two periods: *TTh or WF, 1:15-4:10*. Laboratory fee, \$10.00.

110a, C110b. Organic Chemistry. ROBINSON

Prerequisite: Chemistry B3b, or A1 and B2. A study of the compounds of carbon, including, in the first semester, a survey of the principal classes of carbon compounds and their characteristics; and in the second semester, a study of synthetical methods and of the atomic forces at work in the reactions of the carbon compounds. Numerous biological and industrial applications are cited. Class, *VII*; laboratory, *1:15-4:10, T, W*, 4 or 5 hours. Laboratory fee, 1 hour, \$6.00; 2 hours, \$10.00 each semester.

111. Advanced Quantitative Analysis. TRUESDAIL

A continuation of B 7, designed to give the student a more comprehensive course in the theory and practice of volumetric and gravimetric analysis. Second semester. Class, *Th, VIII*; laboratory, two periods; *TTh, 1:15-4:10*. Laboratory fee, \$10.00.

113. Special Quantitative Methods. GROSS

Prerequisite: Chemistry C111. First semester. Three laboratory periods, *A*, from which time is taken for conferences. Laboratory fee, \$12.00.

114. Advanced Organic Chemistry. ROBINSON

Prerequisite: Chemistry C110b. Devised to give additional experience and insight into the laboratory methods of organic chemistry, either preparative or analytical. Laboratory and conference, *A*. Each semester, 2 or 3 hours. May be repeated for credit. Laboratory fee, \$5.00 per hour.

115a, D115b. Biological Chemistry. TRUESDAIL

Prerequisites: Chemistry B7 and C110. Lectures and reports on the chemistry of carbohydrates, fats, proteins, body tissues, blood, secretions, putrefaction and the physiological processes such as digestion, absorption and assimilation of food, general

enzyme action, metabolism and the fundamental principles of nutrition. The laboratory work consists of qualitative and quantitative experiments on the lecture material. Class, *WF, III*; laboratory, *F, 1:15-4:10*. Laboratory fee, \$6.00 each.

D119a, D119b. Physical Chemistry. GROSS

Prerequisites: Differential and Integral Calculus, Chemistry B7 and a C course in either chemistry or physics. A general review of elementary physical chemistry, followed by an intensive study of thermodynamics and its application to certain topics in the study of solutions, ionized solutes, equilibria, phase rule, thermochemistry and electrochemistry. Class, *TTh, VIII*; laboratory, *1:15-4:10, T*. Laboratory fee, \$8.00 each.

D121a, D121b. Chemistry Conference. THE STAFF

A study of chemical history and modern chemical literature, with frequent oral and written reports. One hour each. Class, *A*.

D201a, D201b. Research in Chemistry. THE STAFF

This course is included in the chemistry curriculum to give the advanced student the opportunity to become acquainted with investigational methods used in the field of chemistry. Problems in Physical, Analytical, Organic, or Biological Chemistry may be undertaken with the consent of the instructor under whom the student wishes to work. 2-6 hours. *A*. Each semester. Fees, \$3.00 per hour.

D219. The Teaching of Chemistry. ROBINSON

Second semester. 2 hours, *A*. Prerequisite: Consent of instructor.

ECONOMICS AND SOCIOLOGY

A reading knowledge of French or German is required of students concentrating in Economics or Sociology.

ECONOMICS

B1a-B1b. Elements of Economics. DUNCAN

A basic course in the general principles of Economics. Required for students expecting to concentrate in Economics. This course required before taking other courses in Economics. Two sections. *I, III*.

B29. Statistical Methods. NESS

Theory and method, including averages, frequency distribution, dispersion, correlation, and graphical methods. Second semester. *S, II*. Laboratory periods, *Th and F, 1:15-4:10*. Laboratory fee, \$4.00.

B31a-B31b. Accounting. NESS

MF, VII and T or W, 1:15-4:10.

C105. Money and Banking. NESS

History and principles of Money and Banking, with particular attention to recent developments in the field of banking. First semester. *VI.*

C106. Public Finance. DUNCAN

Public expenditures, public revenues, public debt, and financial administration, with special attention to the theory and practice of taxation. Second semester. *IV.*

C108. Problems of Labor. KIRK

A study of labor organizations; labor legislation; scientific management; methods of promoting industrial peace. Second semester. *V. (Omitted in 1928-1929.)*

C109. Transportation Problems. NESS

An historical and analytical study of transportation principles and problems, with particular reference to railway transportation in the United States. Second semester. *VI.*

C110. Corporation Finance. DUNCAN

Principles underlying the promotion, financial structure and control, failure and reorganization of corporate enterprise, including some study of cooperative organizations. It is recommended that a course in accounting precede this course. First semester. *IV.*

D111. Investments. NESS

A study of the fields of speculation and investment; problems of investment and analysis. Economics C110 prerequisite. Second semester. *VIII.*

D115. Principles of International Trade. NESS

First semester. *I.*

D116. Agricultural Economics. BURGESS

A study of the application of economic principles to certain problems of agriculture, such as land tenure, transport, labor, marketing and prices. Second semester. *II.*

D117. Economic Problems of the Orient. DUNCAN

A study of the economic, social and political problems of the Far East with special reference to current conditions in China. Enrollment restricted to those expecting to concentrate in Social Science and to others by special consent of instructor. First semester. *VII.*

D119. Monopolies and Trusts.**BURGESS**

A study of the economic and legal status of monopolies. First semester. *II*.

D125a-D125b. Economic and Social History of the United States.**PITMAN**

(*See History.*)

D210a, D210b. Economic Theory.**FETTER**

The special topics studied vary from year to year, and will include critical analysis of underlying economic theory and its development. The course aims to synthesize the student's work in Economics and culminates in the comprehensive examination required for those concentrating in Economics. 2 hours. *A*.

SOCIOLOGY**B21a-B21b. Elements of Sociology.****ELIOT**

First semester: Analysis of original and acquired factors in social behavior; of social processes and achievement; and of social control and progress. Second semester: Conservation of social resources; the evaluation of social efficiency; normal and subnormal standards of living; the maldistribution of wealth; measures for the maintenance of family integrity and of the standard of living; the basis of social work. Two sections. *IV* and *VI*.

C125. The Control of Poverty.**KIRK**

(*Omitted in 1928-1929.*)

C127. Criminology.**ELIOT**

The nature and evolution of crime; causes of crime; criminal procedure; origins and evolution of punishment and treatment; the prevention of delinquency. First semester. *V*.

C128. Social Aspects of Child Welfare.**ELIOT**

Protection of maternity and infancy. Fundamentals of normal development and the social agencies to provide them; health, safety, play, education, employment, care of maladjusted children. Second semester. *V*.

D112. Social Psychology.**EWER**

(*See Psychology D112.*)

D227. Advanced Studies in Sociology.**ELIOT**

Research in urban social problems and agencies. Individual or group investigations in such fields as social hygiene, recreation, juvenile courts, immigration, crime, the family. First semester *III*.

D228. Social Theory.

ELIOT

Class discussion based upon Park and Burgess's *Introduction to the Science of Sociology*. Individual projects in such fields as psychological sociology, group behavior, social control, population problems, historical sociology, comparative social theory. Second semester. *III*.

EDUCATION

With the close of the collegiate year, training for elementary certificates will be discontinued in Pomona College. Students who desire to secure elementary certification after June, 1929, are strongly advised to investigate the proposed year of post-graduate training in Claremont Colleges.

D103. Principles and Problems of American Education.

DOUGLASS

The purpose of this course is to introduce the student to the most important problems in American education and to acquaint him with certain approaches to the solution of these problems. Although primarily a beginning course for prospective teachers, it is also designed for those not expecting to teach but who desire an understanding of the American school system. Both semesters. First semester, *V*; second semester, *IV*.

D107. Educational Psychology.

EWER

Practical applications of psychology to education. The inherited nature of the learner; principal features of the learning process; principles of educational discipline; methods of mental measurement. Both semesters. First semester. *VIII*; second semester. *V*.

D104a, D104b. History of Education.

NICHOLL

The development of educational theory and practice from the Greek period to the present. The second semester is devoted to a discussion of modern problems and principles growing out of historical changes, with special reference to the development of education in the United States. 2 hours. *WF, VII*.

D117. The Nature and Measurement of Intelligence.

WILLIAMS

A study of the principles and methods of intelligence testing with special emphasis upon the methods of giving the Stanford Revision of the Binet Tests. Second semester. *VIII*.

D119. Classroom Methods and Management.

DOUGLASS

The technique of classroom procedure. This course is adapted especially to the needs of prospective secondary-school teachers, and should be carried in conjunction with Practice Teaching. Both semesters. First semester, *XIII*; second semester, *XIV*.

D125. Mental and Physical Hygiene in Education.

EY

A study of the development of the child mentally, physically and morally. First semester, *IV*.

D210. Practice Teaching.

DOUGLA

A course in actual practice teaching, including regular conferences with the supervisor. Open to those completing credit requirements during the current year. Students should carry Education D119, Classroom Methods and Management, in conjunction with Practice Teaching. 4 hours. *A*.

D215. Principles of Secondary Education.

DOUGLA

The factors and principles which underlie the theory and practice of secondary education, including the junior high school, the senior high school, and the junior college. A general course for teachers and officers of secondary schools. First semester, *I*.

D217. Problems in Education.

Stress is placed upon current educational problems and literature. Students may consider such individual problems as will aid them in filling gaps in their training. 2 or 3 hours. Second semester, *T*, 4:15-6:05.

ENGINEERING SCIENCE

A2a, A2b. Engineering Drawing.

TAYL

A beginning course in mechanical drawing. Includes lettering, use of instruments, orthographic projection, intersection of solids, development of surfaces and the making and interpretation of working drawings. 1 or 2 hours. *TTh or F. 1:15-4:10.*

B3a, B3b. Engineering Drawing.

TAYL

Treats of orthographic and perspective projections, machine and structural details. Prerequisite: Engineering A2 or its equivalent. 1 or 2 hours, *TTh or F. 1:15-4:10.*

C112a, C112b. Engineering Drawing.

TAYL

Design of cams, gears, machine parts and simple trusses. 2 hours. *TTh or F. 1:15-4:10.*

SB11. Surveying.

TAYL

Use and adjustment of surveying instruments. Methods of mapping and mapping surveys for various purposes. Given during summer session at the Bluff Lake Camp of Pomona College. Prerequisite: Plane trigonometry. 6 hours.

D113a, D113b. Analytic Mechanics.

TAYL

A study of force and motion with special reference to engineering problems and structures. Prerequisite: A knowledge of calculus. *VII.*

17. Hydraulics.**TAYLOR***(Omitted in 1928-1929. Offered in 1929-1930.)***19. Mechanics of Materials.****TAYLOR***(Omitted in 1928-1929. Offered in 1929-1930.)***ENGLISH**

Writing and Speech are emphasized features of all lower
 sion courses.

a-A1b. English: An Introductory Course.**THE DEPARTMENTAL STAFF**

The fundamental principles of literary criticism and interpretation together with reading and study of specimens of the more important literary types; instruction and practice in writing and speech. 4 hours. Prerequisite for all other departmental courses. Men: *WF, III*; section meetings at *IV*. Women: *TTh, V*; section meetings at *III*.

Shakespeare.**FRAMPTON**

A general course, including some consideration of Shakespeare's life and the conditions under which he lived and wrote, the chief stress falling, however, on a study of the greater plays with a view to enabling the student to read Shakespeare with sympathetic appreciation. Second semester. *V*.

, B5b. Nineteenth Century Literature.**LINCOLN and WOOD**

Wide reading in the literature of the period, in poetry and essays especially, with lectures on its significance as an expression and interpretation of general English life. *V*.

, B7b. Types of Drama.**DAVIS**

Studies in the great periods of dramatic achievement from the classic Greek to the present day with as extensive reading as time will permit. Offered to men and women in alternation; in 1928-1929 registration is limited to women. *I*.

, B9b. Types of Prose Fiction.**HARRIS**

Studies in the various phases, as tale, romance, novel and short-story, through which fiction writing has passed from medieval times to our own. Offered to men and women in alternation; in 1928-1929 registration is limited to men. *I*.

, English Composition.**WOOD**

A general course with emphasis on expository writing. First semester, *II*; second semester, *VII*.

C102. Chaucer.**LINCOLN**

A study of Chaucer as the outstanding narrative and dramatic poet of the transition from the medieval to the modern world. Offered to men and women in alternation; in 1928-1929 registration is limited to men. Second semester. *VII.*

C103a, C103b. Literature of the Eighteenth Century.**MCCULLEY**

The neo-classical literature of Dryden, Pope and their contemporaries; the periodical essayists; sentimentalism, realism and romanticism; the eighteenth century drama; the beginnings of the English novel; the spread of the romantic movement in England and on the Continent. Permission of the instructor must be secured before registration for this course. *II.*

C105a, C105b. American Literature.**LINCOLN**

The literature of the United States, with emphasis on its expression of our national characteristics and sentiments. Offered to men and women in alternation; in 1928-1929 registration is limited to women. *VI.*

C107. Contemporary Poetry.**LINCOLN**

A course in the forms and content of contemporary poetry with directed practice in the writing of verse. First semester. *VII.*

C111. Short-Story Writing.**FRAMPTON**

Practice in supervised writing of short-stories. Study of contemporary short-stories. First semester. *V.*

C112. The Essay.**HARRIS**

A writing course with some study of recent essay literature. Second semester. *V.*

D121a-D121b. The English Language.**DAVIS**

A study of the English language at the various stages of its development from Anglo-Saxon times to the present, emphasis falling on those features of it that explain the forms and usages of today. Offered especially for those seeking teacher's certification in English. 4 hours. *V*, and one other hour, *A*.

D123a, D123b. History of English Drama to 1642.**FRAMPTON**

Lectures and readings tracing the historical development of English drama from its beginning to its flowering in the work of Shakespeare and his contemporaries; thence through its decline to the closing of the theatres. *VII.*

D125a, D125b. Shakespeare.**MCCULLEY**

A study of Shakespeare's complete works. *I.*

D127. Literary Criticism.

FRAMPTON

An examination of the bases of literary criticism; studies of outstanding modern critics; frequent practice in supervised critical writing. First semester. *T, X and XII, and F, IX.*

D128. Dramatic Writing.

Studies in the technique of play construction together with practice in dramatic composition. Prerequisite: English B7 or equivalent. Second semester. (*Omitted in 1928-1929.*)

D215a, D215b. The Development of English Literature.

THE DEPARTMENTAL STAFF

Lectures, reading, papers and oral reports directed toward a synthesis on the student's part of his work in the field of literature and allied subjects; the course culminates in the comprehensive final examination required of persons concentrating in English. Prerequisite: English C103 or an equivalent. Registration for the second semester is conditioned upon a grade of B or better in the first. *M, XI, and W, XI and XIII.*

D218. The Great Victorians.

McCULLEY

The "major prophets," Carlyle, Ruskin and Arnold, receive chief emphasis. The work of other eminent Victorians is investigated and discussed in relation to these central figures and to the general social life of the period. Prerequisite: English C103 or an equivalent. Second semester. (*Omitted in 1928-1929.*)

D230. Creative Writing.

FRAMPTON

Supervised practice in all forms of creative writing. Study of matters and fields of literary interest. Second semester. *T, X and XII, and F, IX.*

FRENCH

1a-A1b. Elementary.

JONES, BISSIRI, HENDRICKSON, WAGNER

Stress laid on accurate pronunciation, essentials of grammar, translation of French prose; dictation, conversation and easy composition. Five sections. *II, VI, VII.*

3a-B3b. French Novel of the Nineteenth Century.

BISSIRI, HUSSON, HENDRICKSON

A study of the prose writers of the nineteenth century. Selections from representative authors; Chateaubriand, Hugo, Balzac, Loti, Sand, Coppee. Composition, summaries and reports in French. Four sections. *I, II, III, IV.*

B4a-B4b. Grammatical Analysis.

BISSIE

An intensive study of grammar with emphasis on idiomatic French, original compositions, conversation, reading of contemporary French. Class conducted largely in French. Prerequisite: French A1 or equivalent. 2 hours. *TTh, VIII.*

C105. Classic Drama.

BISSIE

A study of typical plays by Corneille, Racine and Moliere, with collateral reports in French. Lectures in French. Prerequisite: French B3 or equivalent. Two sections. First semester. *V.*

C106. Seventeenth Century Prose.

BISSIE

Study of Boileau, La Fontaine, La Bruyere, Descartes, Pasca Bossuet, Fenelon, Mmes. de Sevigne, La Fayette and Mairtenon; lectures and collateral study in French upon the age of Louis XIV. This and all following courses conducted in French. Second semester. *V.*

C107a-C107b. French Conversation.

BISSIE

Practical course in French conversation based on modern colloquial usages. Prerequisite: French B3 and B4 or equivalent. 1 hour. *T, X.*

D109. Literature of the Eighteenth Century.

JONES

A critical study of the French philosophers of the eighteenth century, with especial attention to Montesquieu, Voltaire and J. J. Rousseau. Collateral readings and reports by members of the class. Prerequisite: French C105 and C106. Required for French major unless D111 is taken. First semester. *II.*

D110. Romantic School.

JONES

An intensive study of the French poets of the early nineteenth century. Readings from Hugo, Lamartine, A. de Musset, and others. Collateral readings and lectures upon the period. Prerequisite: French C105 and C106. Required for French major unless D112 is taken. Second semester. *IV.*

D111. Le Moyen Age.

JONES

Poetry of the Middle Ages. Les chroniqueurs. Villon. Lectures upon the literary history of the period. Required for French major unless D109 is taken. First semester. (*Omitted in 1928-1929.*)

D112. La Renaissance.

JONES

Ronsard and the Pleiade. Rabelais and Montaigne. Poetry of Marot. Lectures. Required for French major unless D110 is taken. Second semester. (*Omitted in 1928-1929.*)

D219. The Teaching of French.

BISSIE

Discussion of textbooks and methods. Technical: French phonetics. First semester. 2 hours. *A.*

GEOLOGY

B1. Physical Geology, Dynamic and Structural. WOODFORD

Prerequisite: High school chemistry or equivalent. Class, two hours a week; laboratory or field work, one period a week. First semester. Class, *WF, I*; laboratory, *W or Th, 1:15-4:10*. Laboratory fee, \$3.00.

B2. Historical Geology. WOODFORD

Prerequisite: Geology B1. Second semester. Class, *WF, I*; laboratory or field work, *W or Th, 1:15-4:10*. Laboratory fee, \$3.00.

B3. Determinative Mineralogy. WOODFORD

Prerequisite: High school chemistry or equivalent. First semester. Two laboratory periods. 2 hours. *A*. Laboratory fee, \$4.00.

C105. Crystallography. WOODFORD

Must be preceded or accompanied by Geology B3, unless taken upon the written recommendation of the Department of Chemistry or of Physics. First semester 2 hours. *WF, V*.

C110. Petrology. WOODFORD

The study of rocks without the microscope. Prerequisite: Geology B1, B3 and C105. Second semester. One class and two laboratory periods. *A*. Laboratory fee, \$4.00.

C104. Field Geology. WOODFORD

Prerequisite: Geology B2, C110. A summer course of three or six weeks. 3 or 6 hours. *A*.

C111. Optical Mineralogy. WOODFORD

Prerequisite: Geology C105. First semester. Two class and one laboratory periods. *A*. Laboratory fee, \$5.00.

C112. Petrography. WOODFORD

Prerequisite: Geology D111. Second semester. One class and two laboratory periods. *A*. Laboratory fee, \$8.00.

D230, D231. Geological Investigation and Research.

WOODFORD
3 hours. *A*. Laboratory fee, \$4.00 each.

GERMAN

A-a-A1b. Elementary German. NEUFELD, WAGNER

The acquirement of a small working vocabulary. Constant ear-

training, and as much practice in speaking as time permits. Daily exercises in reading and writing. The essentials of grammar. Etymology. Comment on German life and literature. Three sections. *II, V.*

B3a-B3b. Advanced German.

NEUFELD, WAGNER

More advanced German language study through intensive reading and discussion of selected German works, with considerably extended reading in the field of the student's individual interest. Continued practice in German conversation. Some attention to an understanding of the cultural life of Germany, Austria and Switzerland. Prerequisite: German A1 or an equivalent. Two sections. *III, VI.*

C113a-C113b. German Literature and Life.

NEUFELD

A survey of German life and thought. Contemporary art and history. Works of general interest such as the *Nibelungenlied*, the lyrics of the troubadours, the writings of Martin Luther and some of the best modern German since the Reformation. *VIII.*

C109a-C109b. German Literature of the Nineteenth Century.

NEUFELD

Rapid reading of typical works from the time of Goethe until the present. Contact established with other European literary movements of the period. Discussion and papers. Prerequisite: German B3 or equivalent. *I.*

One of the following courses, to be elected only with the consent of the instructor, may be offered if there is sufficient demand.

D115. Goethe and His Times.

NEUFELD

Either semester. *A.*

D217. Middle High German.

NEUFELD

Either semester. *A.*

GREEK

B1a-B1b. Elementary.

ROBBINS

First lessons; relation to modern Greek and to English scientific vocabulary; selected short passages from Greek literature. Book I of Homer's *Iliad*. *VIII.*

B3a, B3b. Selections from Greek Literature.

ROBBINS

Selected readings from Herodotus, Plato, Homer and the tragedians. Study of the Greek theater and stage antiquities.

C117. History of Greece.**ROBBINS**

Lectures, assigned readings and quizzes on the history, civilization and achievement of the Greeks from prehistoric times to the Roman Conquest. First semester. *V.*

HISTORY

A reading knowledge of French or German is required of students concentrating in History.

A1a-A1b. The Development of Western Civilization. PITMAN

The evolution of civilization in Europe from antiquity to the present, and its spread throughout the world. Attention is paid to the political, religious, intellectual, and economic forces of change. The aim is to lay a foundation for the understanding of contemporary problems. Normally a prerequisite for advanced courses in history. *I.*

B5a, B5b. American History.**COOKE**

A general survey from the early explorations to the present tracing the development of the American people in its economic, social, and governmental aspects. Some attention is paid to historical method and to biography. First semester to the administration of Jackson. Second semester, the Jacksonian period to the present. *II.*

B7a-B7b. English History.**PITMAN**

A survey of the development of the main features of civilization in England and the British Empire. Emphasis is laid upon the evolution of religious, intellectual, and economic forms as well as the growth of political institutions. Thus the course is largely a study of the cultural heritage of America. First semester, Great Britain to 1660; second semester, Great Britain and the Empire since 1660. *VIII.*

C108. Problems in International Relations.**SAIT**

(See Department of Political Science and Law.) First semester. *II.*

C109. Westward Expansion of American Society.**COOKE**

A study of frontier society in its geographic, economic, social and governmental aspects, and of the influence of frontier conditions and institutions on the character of American society and politics. First semester, *VI.* (*Omitted in 1928-1929*).

C113a-C113b. Modern European History.**COOKE**

Following an introductory survey of the forces operating in the society of the eighteenth century a study is made of the

French Revolution and the Napoleonic period. First semester to 1878. The development of European nations is traced in its political and cultural aspects with emphasis upon international relations, the World War, the League, and problems of reconstruction. *VII.*

C117, C118. History of the Greeks and Romans. ROBBIN
(See Departments of Greek and Latin for description.) *V.*

D117. Economic Problems of the Orient. DUNCA
(See Department of Economics and Sociology for description)

D119. American Diplomatic History. COOK
An examination of American diplomatic practice in such matters as neutrality and freedom of the seas, fisheries, commercial relations, the Monroe Doctrine, recognition of new governments, expatriation and protection of citizens abroad, immigration, disarmament, arbitration and international association. First semester. *VI.*

D125a-D125b. Economic and Social History of the United States. PITMAN
A study of agrarian, commercial, and industrial conditions which helped determine the character and importance of the major political and social problems of American colonial and national history. Lectures, investigation of topics, and reports. *A.*

D131. Hispanic American History. PIJOU
Special fields selected for study and investigation, such as the period of the great discoveries, the Spanish settlement of California, Spanish institutions in America. Second semester.

D219. Teaching of History and the Social Sciences. COOK
Reports and discussions on the meaning and content of the social studies, their inter-relations, their contributions, and their place in secondary and junior high school curricula. Practice in the organization of courses, selection of bibliographies, and examination of methods of teaching are essential features of the course. This work is correlated with practice teaching. Second semester. 2 hours. *A.*

D231a-D231b. Historiography. PITMAN and COOK
An examination of the development of historical writing, availability of sources, and the emergence of new methods and viewpoints for the investigation and interpretation of historical phenomena. Lectures, student reports, and discussions. Primary

for students concentrating in history. 2 hours. *A. (Withdrawn 1928-1929.)*

For courses in American Government and Constitutional Law see the Department of Political Science and Law; for the history of education, see Department of Education; for philosophy of the state and history of philosophy, see Department of Philosophy; for church history, see Department of Religion; for history of art, see Department of Art.

ITALIAN

B31a-B31b. Elementary. JONES

Essentials of grammar. Special emphasis upon pronunciation. Composition and dictation. *XI.*

C133. Boccaccio and Petrarch. JONES

Selections from the Decamerone and other works of Boccaccio. Study of the Canzoniere of Petrarch. First semester. *A.*

C134. Dante. JONES

Intensive study of the Inferno, with selections from the Purgatorio and Paradiso. Collateral readings with reports in Italian. Prerequisite: C133 or C135. Second semester. *A.*

D135. I Poeti dei secoli XVIII e XIX. JONES

A study of the foremost Italian poets and dramatists of the last two centuries. Collateral readings and reports in Italian. First semester. *A. (Omitted in 1928-1929.)*

D136. Il Cinquecento. JONES

A study of the Italian epics of the sixteenth century. Readings from Bolardo, Ariosto, Tasso and others. Collateral readings and reports in Italian. Prerequisite: C133 or C135. Second semester. *A. (Omitted in 1928-1929.)*

LATIN

A1a-A1b. Elementary. ROBBINS

An introductory course in the rudiments of the Latin language with emphasis upon the relation of Latin to English and the Romanic languages. *VII.*

A2a-A2b. Cicero, Ovid and Vergil. ROBBINS

Cicero, Orations I and IV against Catiline and the Oration for Archias; selected passages from Ovid's Metamorphoses and Vergil's Aeneid. *VII. (Omitted in 1928-1929.)*

B3a, B3b. Cicero, Pliny and Horace.

ROBB S

Cicero, *De Senectute*; Pliny, *Selected Letters*; study of life and times of the late Roman republic and early empire; Horace, *Odes and Epodes*; philosophy, history and mythology as reflected in the poems of Horace; study of the metrics of Horace and the influence of the Greek lyric poets. *VI.*

C105a-C105b. Composition.

ROBB S

Review of Latin grammar; translation of sentences and connected discourse into Latin according to the needs of the class; lectures on word-formation and syntax. This course may be re-elected with credit and is required of students majoring in Latin. *A. 1 hour.*

C107a, C107b. Roman Comedy and Elegy.

ROBB S

Selected plays from Plautus and Terence. Origin and development of the elegy with emphasis upon the poems of Catullus, Tibullus, Propertius and Ovid. *IV. (Omitted in 1928-1929.)*

C118. History of Rome.

ROBB S

Lectures, assigned readings and quizzes on the history, organization and achievement of the Romans from the foundation of the Eternal City to the reign of Justinian. Second semester. *V.*

D109a, D109b. Roman Philosophy and Satire.

ROBB S

Selections from the philosophical works of Cicero, Lucretius and Seneca; contribution of Rome to the history of philosophy. Selected poems of Martial, Persius and Juvenal; history of the origin and development of satire. Alternates with C5. *IV.*

D219. The Teaching of Latin.

ROBB S

Designed for those who plan to teach Latin in the secondary schools. First semester. 2 hours. *A. (Omitted in 1928-1929.)*

D220. History of Roman Literature.

ROBB S

A study of Roman Literature with emphasis upon the Roman historians, Livy and Tacitus. Second semester. 2 to 4 hours. *I. (Omitted in 1928-1929.)*

MATHEMATICS

The courses in Mathematics designated A2, A4, A5 and B3 are intended primarily for Freshmen. Students who enter with credit for three and a half or four units of commended work in Mathematics, including solid geometry and trigonometry may take Mathematics B13. Mathematics A5 is intended primarily for

ose who do not expect to take further work in the subject. Others should take Mathematics A4 and A2 or B3, according to their preparation and need.

2. Plane Trigonometry. TAYLOR and BERRY

Elements of plane trigonometry with practical problems. Each semester. First semester, *V*; second semester, *VI*.

4. Algebra. BERRY and TAYLOR

A semester course in second year algebra, designed for those who have studied algebra only one year. First semester, *VI*; second semester, *V*.

5a-A5b. Elementary Analysis. BERRY

A theoretical and historical study of some of the more interesting principles of mathematical analysis. *II*.

3a, B3b. Algebra. RUSSELL

Fundamental operations and quadratic equations; complex numbers; ratio, proportion and variation; binomial theorem; elementary functions; series; logarithms; theory of equations. Prerequisite: Two years of high school algebra. *V*.

13a, B13b. Analytical Geometry and Calculus. RUSSELL and BERRY

An elementary course in the principles of coordinate geometry and introduction to differential calculus. Designed to follow Mathematics A2, A5 or B3. *VI, I*.

115a-C115b. Differential and Integral Calculus. RUSSELL

A continuation of Mathematics B13a, B13b. *IV*.

119. Theory of Equations. RUSSELL

Theory and solution of higher algebraic equations, employing determinants, elimination and linear transformations. First semester. *II*.

120. Differential Equations. RUSSELL

A general course in the theory and solution of differential equations. Second semester. *II*.

121a-D121b. Higher Analysis. TAYLOR

An introduction to the realm of higher mathematics, including the intensive study of some particular subject, such as the theory of numbers or real functions, designed to develop independence and power in mathematical reasoning. *III*.

D127. Projective Geometry.

TAYLOR

A deductive study of the principles of projective geometry with special attention to the foundations of geometry. (*Omitted in 1928-1929.*)

MILITARY SCIENCE

The College maintains an Infantry Unit, Senior Division, of the Reserve Officers' Training Corps. The four-year course is divided into the basic course, which consists of the first two years and the advanced course, which consists of the last two years. Enrollment in either course is voluntary but, when a student has elected either the basic or advanced course, completion of such course is a prerequisite for graduation.

The basic course is open to all physically fit male students who are American citizens. The advanced course is open to selected students who have completed the basic course or its equivalent, and who enter into an agreement to attend one summer instruction camp for a period of six weeks. Students who have completed two full academic years in a junior R.O.T.C. unit will normally be admitted to the second year of the basic course. Students who have completed three full years in a junior R.O.T.C. unit may be admitted to the advanced course in their freshman year.

Students in the basic course are furnished uniforms without charge. Students in the advanced course receive an allowance from the Government amounting to about nine dollars per month for two college years and receive nominal pay during the period of attendance at summer camps. Upon completion of the advanced course students may be commissioned as second lieutenants in the Officers' Reserve Corps.

A1a-A1b. First Year, Basic Course.

SANFORD

National Defense Act and the R.O.T.C.; military courtesy and discipline; drill and command; rifle marksmanship; scouting and patrolling. 1½ hours. Class, *M, III*. Drill, *M, 1:15-3:05*.

B3a-B3b. Second Year, Basic Course.

BACON

Automatic rifle; musketry; drill and command; scouting and patrolling; combat principles of the rifle squad. 1½ hours. Class, *Th, VIII or F, IX*. Drill, *M, 1:15-3:05*.

C105a-C105b. First Year, Advanced Course.

BACON

Map reading and military sketching; interpretation of aerial photographs; drill and command; machine guns; 37mm gun and trench mortar; combat principles of the rifle section and platoon. 3½ hours. *III or VII and M, 1:15-3:05*.

107a-D107b. Second Year, Advanced Course. SANFORD

Infantry weapons; military law and Officers' Reserve Corps regulations; military history and policy; military correspondence and administration; field engineering and camouflage; drill and command to qualify the student to perform the duties of platoon and company commanders; combat principles of the rifle and machine gun companies and howitzer platoon. 3½ hours. *IV and M, 1:15-3:05.*

MUSIC**THEORY AND APPRECIATION**

Courses in the Theory and Appreciation of music are granted credit on the same basis as other college studies and proficient students may major in either theoretical or applied music under conditions arranged in consultation with the head of the department.

1a-A1b. Elementary Harmony. ALLEN

A study of intervals, scales, tonal magnetism, primary triads, dominant seventh and ninth chords, and all non-chordal tones. Harmonization of melodies. A2 is recommended. Prerequisite: Elementary knowledge of the pianoforte. Two sections, *I, II*

2a, A2b. Ear Training and Sight-Singing. ADAIR

A study of scale tones and their relationships together with a development of rhythmic appreciation. Melodic and harmonic dictation with a view to discriminative listening and proficiency in sight-reading. Recommended for all harmony students. Two sections. 3 hours' recitation. 2 hours' credit. *V and IX.* The section at *IX* is open only to students who have had one year of harmony.

3a-B3b. History and Appreciation. ALLEN

A course tracing the development of music from ancient times to the present; biographical sketches of famous composers with a description of their principal works. Recitals, to aid in appreciation, are given frequently. Victrola and Duo Art. 2 hours. *MF, XI.*

5a-B5b. Advanced Harmony. ALLEN

Secondary harmonies. Modulation and chromatically altered chords. Extensive keyboard drill. Creative work is encouraged from the beginning. Harmonization conducted on a melodic basis. Prerequisite: Music A1 or equivalent. *VII.*

7a, B7b. Choral Singing. LYMAN

The study and production of choral music, especial attention being given to diction, phrasing, content of the works dealt with,

and an understanding of musicianship as applied to choral singing. The Class will be organized as the College Choir and such will sing and practice on Mondays, Wednesdays and Fridays from 9:30 to 10:10 and at an additional hour to be arranged. 1 hour. The course may be repeated for credit.

C107a-C107b. Counterpoint.

ALLE

A study of Simple Counterpoint in the five species with a aim to develop technique in voice leading. Two and three part inventions. Creative work in the simple forms of Free Composition is undertaken during the course. Prerequisite: Music B5. *VI.*

C113a-C113b. Orchestration.

CLOKE

A study of orchestral instruments, their capabilities and limitations, and their use singly, and in groups; arranging of compositions for Symphony. "American" and "Theatre" Orchestra; the study of scores; the theory and practice of conducting. This course is especially designed to meet the needs of a student desiring the State Certificate. Prerequisite: Music B *XIII.*

D108a, D108b. Free Composition.

ALLE

Advanced original work in the shorter free styles followed by the Sonata form. Prerequisite: Music C107. *A.*

D219. Public School Music Methods.

COLEMA

Selection, presentation and interpretation of the song. Method of developing sight-singing and other technical problems. Brief study of child psychology. Teaching plans with a bibliography of material. Class work includes actual teaching practice. First semester. 2 hours. *A.*

APPLIED MUSIC

The student in applied music will be enrolled for credit toward the Bachelor of Arts degree only upon the written recommendation of the Chairman of the Examining Committee and the Head of the Department, and upon the subsequent favorable action of the Classification Committee. This recommendation is based upon the degree of ability and advancement shown in Proficiency Tests. In addition the work in applied music must be accompanied or preceded by Harmony A1. A second year or more credit is possible when the applied course is accompanied or preceded by Harmony B5. A minimum of two half-hour lessons weekly is required for which two hours' credit is allowed. No college credit is given for work below "B" (Sophomore) grade. Not more than 12 hours' credit in applied music may be counted toward the Bachelor of Arts degree unless the student is able

represent a total of 8 hours of "D" (Senior) grade work in any subject. In this case 16 hours' credit may be allowed. Proficiency tests are required only of students desiring credit toward the Bachelor of Arts degree. For further details *see* Music Bulletin.

voice	LYMAN, BABCOCK, H. CLOKEY
organ	J. CLOKEY
piano	OLIVE, WEST, ADAIR
Violin and Ensemble	UNIACKE
violate	PLOWE
Violoncello	WEIRICK
Wind Instruments	FREDERICK

PHILOSOPHY

1. Introduction to Logic. IREDELL

A study of the elements of deductive and inductive reasoning with special emphasis upon the problems of definition, the nature and use of scientific hypotheses, probability, and deductive and inductive fallacies. Each semester. *VI*.

3. Ethics. DENISON

A study of the nature of morality, the problem of human freedom, the standard of judgment of right and wrong and of social and individual judgments on moral questions. An examination of conscience and reason. First semester. *V*.

25a, C125b. History of Philosophy. IREDELL

A study of the main currents of thought from the earliest Greek thinkers through modern philosophic thought. The course is designed to be a general and cultural introduction to philosophy through history. *VII*.

27. Introduction to Philosophy. DENISON

An introductory consideration of the meaning and method of philosophy, an examination of the thought problems which emerge in astronomy, geology, physics, biology and psychology and a review of some of the main philosophic estimates of life. Second semester. *V*.

33. Philosophy of Evolution. DENISON

A study of the nature of the evolutionary process, with examination of Darwin's idea of evolution, and later theories, in their scientific and metaphysical aspects, such as mechanism, teleology, creative evolution, and the place of man and value in the order. First semester. *VI*.

D116. Locke, Berkeley and Hume.**IREDEL**

A critical and intensive study of the major works of the above English philosophers with especial reference to their influence on later thought. First semester. *VIII.*

D118. Theory of the Self in Contemporary Philosophy.**IREDEL**

A critical survey of contemporary views about the nature of the self, considering such problems as the definition of the term, the nature of self-knowledge, and the place of selves in reality. Second semester. *VIII.*

D120. The Philosophy of Art.**DENISO**

A study of the nature of art, of its bases in human nature and its value as a means of interpretation of the universe together with an examination of the meaning of beauty. Second semester. *III. (Omitted in 1928-1929.)*

D122. Philosophy Since 1900.**DENISO**

A study of contemporary philosophic thought through some of the main modern thinkers with special reference to the dominant ideas of the civilization of today. First semester. *II.*

D124. Philosophy of Religion.**DENISO**

An examination of the human aspects and the metaphysical foundations of religion, the relation between scientific and religious conceptions of God, the world and immortality. Second semester. *III.*

D132. Philosophy of State and Law.**DENISO**

A philosophical study of the nature and function of the state and its basis in human nature, together with an examination of the philosophies of democracy, of the economic order of internationalism and of law. Background in Social Psychology, Sociology, Economics or Political Science required. Second semester. *IV.*

D230. Investigation of Specific Philosophical Problems.**DENISON and IREDEL**

Admittance by consent of the instructors. Each semester.

PHYSICAL EDUCATION**MEN AND WOMEN**

A student may count toward graduation not more than one hour per semester in "sports" and "activities" during his Lower Division years, and not more than one-half hour per semester during his Upper Division years.

26. School Hygiene and Supervision. KELLEY

This course presents a brief survey of the psychological basis for teaching health. Problems of health supervision and the principles involved are dealt with. The standard course in First Aid leading to the Red Cross Certificate is included. First semester. 2 hours. *MW, III.*

27. Playground Theory and Activities. HEATH

First semester. 2 hours. *MW, IX.*

28. Playground Dancing. KELLEY

Prerequisite: Physical Education C127. 2 hours. Second semester. *MW, IX.*

30. Kinesiology. BIGELOW

A study of the mechanism of joint movement; its application to selected activities. Prerequisite: Zoology D135. (*Omitted in 1928-1929.*)

31. Theory and Application of Remedial Exercises.

BIGELOW

Study and treatment of functional and structural abnormal anatomical conditions. Prerequisite: Physical Education D130. (*Omitted in 1928-1929.*)

33. Teaching of Health. KELLEY

This course applies the principles given in Physical Education C126. The practical problems in leadership of various age periods in order to establish interest and self-direction in their own health problems are considered. Second semester. 2 hours. *MW, III.*

MEN

A physical examination is given to all entering students, together with a series of physical efficiency tests. Upon the basis of these tests and examinations each student is assigned for the first semester of his freshman year to courses in sports, gymnastics or corrective exercises, according to his physical needs; for the second semester he is given work in either Self Defense or Gymnastic Exercises. In the first semester of the sophomore year the Swimming Test must be met; all who fail to pass it will be assigned to classes in Swimming.

A-a-A1b. Sports, Gymnastics or Corrective Exercises.

NIXON, HEATH, STREHLE, MERRITT

Required, Freshman year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A.*

A-a-A2b. Gymnastic Exercises. STREHLE

Required of Freshmen not taking military. $\frac{1}{2}$ hour. *A.*

A5. General Hygiene.

NIXON

A general course in the study of personal hygiene and public health. Each semester. 2 hours. *TTh, VI.*

B3a-B3b. Sports or Gymnastics.

NIXON, HEATH, STREHLE, MERRITT

Required, Sophomore year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A.*

B4a-B4b. Sports.

NIXON, HEATH, STREHLE, MERRITT

Required of Sophomores not taking military. Sophomore year. $\frac{1}{2}$ hour. *A.*

C105a-C105b. Sports.

NIXON, HEATH, STREHLE, MERRITT

Required, Junior year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A.*

C107a-C107b. Sports.

NIXON, HEATH, STREHLE, MERRITT

Required, Senior year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A.*

D135a-D135b. Methods in Coaching and Supervising Athletics.

MERRITT, HEATH, STREHLE

Open to Senior men only. 2 hours. *A.*

D219. Teaching of Physical Education.

NIXON

Theory of teaching physical education in elementary and secondary schools. Brief study of history and theory of physical education, of the various systems now in use, with emphasis on the California system. Second semester. 2 hours. *TTh, VIII.*

WOMEN

A medical and physical examination is given all entering students with subsequent posture tests. Physical activities are allowed or prescribed as the result of these examinations. Gymnastics, Natural Dancing or Remedial is required for one winter season the Freshman or Sophomore year. The same program with the addition of Games and Stunts may be elected for the second winter season. Students may have freedom of election in sports in so far as medical and physical examinations warrant, but must include during the Freshman and Sophomore years one individual sport, one team or group sport and one season of either clogging, folk, or natural dancing.

A5. General Hygiene.

KELLER

2 hours. Each semester. *TTh, VI.*

A11a-A11b. Gymnastics.

VAN GELDER, BIGELOW, KELLER

Required, Freshman year. $\frac{1}{2}$ hour. *MW, VII or XIII.*

12a-A12b. Sports and Dancing.

KELLEY, BIGELOW, VAN GELDER

Required, Freshman year. $\frac{1}{2}$ to 1 hour. *A*.

13a-B13b. Gymnastics. VAN GELDER, BIGELOW, KELLEY

Required, Sophomore year. $\frac{1}{2}$ hour. *TTh, VIII or XIV*.

14a-B14b. Sports and Dancing.

KELLEY, BIGELOW, VAN GELDER

Required, Sophomore year. $\frac{1}{2}$ to 1 hour. *A*.

115a-C115b. Sports and Dancing.

KELLEY, BIGELOW, VAN GELDER

Required, Junior year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A*.

117a-C117b. Sports and Dancing.

KELLEY, BIGELOW, VAN GELDER

Required, Senior year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A*.

119a-D119b. Methods in Coaching and Supervising

Sports.

KELLEY, BIGELOW, VAN GELDER

1 hour. *F, XI*.

219. Theory of Physical Education.

BIGELOW

Present day objectives and principles of physical education; their relation to general education. Organization, adaptation, and general principles of teaching activities. First semester. 2 hours. *A*.

PHYSICS

1a-A1b. Introduction to Physical Science.

TILESTON and HITCHCOCK

A non-mathematical course intended for those who wish to obtain a knowledge of the facts and theories of physics, with their practical application to modern life. The lectures will be illustrated by numerous experimental demonstrations and the subject will be developed from the basis of the electron structure of matter. *V*. Fee, \$5.00 each.

2a-B2b. General Physics.

TILESTON

A study of the phenomena and laws of mechanics, wave motion, sound, heat, magnetism, electricity and light. This course is designed to furnish a working knowledge of the basic principles of physics and is planned especially for those students

who expect to continue their technical studies in physics, chemistry, engineering or medicine. Prerequisite: Trigonometry. Consent of instructor necessary for registration in case of Freshmen. *I*.

B4a-B4b. Physical Measurements.

TILESTON

Quantitative laboratory work in the subjects indicated in Course B2a-B2b. Must accompany B2a-B2b. *W* and *Th.* 1:14-4:15. 1 or 2 hours. Fee, \$3.00 each hour.

C111a-C111b. Electricity and Magnetism.

TILESTON

A course of advanced work in theoretical electricity and magnetism, a study of the fundamental laws underlying resistance, self and mutual inductance, and capacity in both direct and alternating current circuits. Prerequisite: Calculus and Physics B2a-B2b, B4a-B4b. 3 hours. *A*.

D109a-D109b. Electrical Measurements.

TILESTON

Laboratory in electrical and electromagnetic measurements; including the calibration of electrical measuring instrument, measurement of magnetization, resistance, inductance and capacity. Opportunity will be given for work in pyrometry, photometry and thermionics. Prerequisite: Physics C111a-C111b preceding or accompanying this course. 1 or 2 hours. *A*. Fee \$4.00 each hour.

D120. Problems for Investigation **TILESTON and HITCHCOCK**

For majors in the department. May be repeated for credit. Each semester. 1 to 3 hours. *A*. Fee, \$1.00 to \$8.00.

POLITICAL SCIENCE AND LAW

A reading knowledge of one foreign language, preferably French or German, is required of students concentrating in Political Science.

INTRODUCTORY COURSES

A1a-A1b. The Foundations of Government.

STON

The genesis and nature of political control in society; its functions and techniques in relation to groups and to individual government as manifested in structure and behavior; the major problems of relationship, organization, and administration presented in modern state life. Prerequisite for all other courses in Political Science and Law. 2 hours. *MW, VII and WF, X* with a third hour at the pleasure of the instructor. *A*.

B3a, B3b. Contemporary Governments.

SA

The character, institutional forms, and political practice of the principal contemporary foreign governments with special attention

tion to English government. First semester. American government including a study of the principles and problems of American national, state and municipal polity. Second semester. Prerequisite: Political Science A1a-A1b. *IV*.

ADVANCED COURSES

Prerequisite: Political Science B3a-B3b or the consent of the instructor.

103. Municipal Problems.

STORY

Survey of modern experience in the organization and administration of urban communities. Analysis and causal explanation applied to selected problems of American municipal government, with special attention to conditions in California cities. First semester. *III*.

104. Political Institutions.

SAIT

Consideration of the more important institutions of popular government and of the efforts to adapt them to increasingly complex conditions. Second semester. *VIII*.

05. Introduction to Law.

BURGESS

The development of American law and legal institutions with some analysis of the rights and liabilities arising from the more common legal relationships. First semester. *IV*.

08. Problems of International Relations.

SAIT

The formulation and control of foreign policy in a democracy; the treaty-making power; contemporary problems arising from competitive national interests including the control of economic imperialism; the "outlawry of war"; and international organization. First semester. *II*.

01. Public Opinion.

STORY

The origin and nature of individual and group attitudes toward public policy; the function and scope of individual and group participation in public affairs; the modes of formulating and expressing public opinion and making it effective in law and policy. Second semester. *III*.

02. Political Parties.

SAIT

Analysis of the problem of getting candidates and policies accepted in large democratic communities with diversified social and economic interests. First semester. *VIII*.

11. Constitutional Law.

BURGESS

An examination of the Constitution of the United States and the decisions of the Supreme Court upon questions arising thereunder. Second semester. *IV*.

D118. International Law.

SAF

The nature, sources and development of international law; its function in the international community; the rights and duties of states; pacific and belligerent procedure for the protection of rights; the League of Nations and the Permanent Court of International Justice. Second semester. *II*.

D230-D231. Survey and Inquiry.

STOR

The bibliographical resources and methods of investigation available to the student of political phenomena; reading programs on selected subjects and reviews of important current literature in the field; inquiry into special problems and their presentation and criticism of reports and theses. Open only to upper division students who are concentrating in the field of political science. 2-4 hours. *A*.

Note: The following courses announced in related departments may be offered for approval in the program of anyone planning to concentrate in the field of political science:

<i>Course</i>	<i>Semester</i>	<i>Period</i>	<i>Instructor</i>
Economics C106. Public Finance.	2	<i>IV</i>	DUNCA
History D119. American Diplomatic History.	1	<i>VI</i>	COOL
History D219. Teaching of History and the Social Sciences.	2	<i>A</i>	COOL
Philosophy D132. Philosophy of the State.	2	<i>IV</i>	DENISC
Psychology D112. Social Psychology.	1	<i>IV</i>	EW

PSYCHOLOGY

B1 or B3 is prerequisite to all further courses in the department.

B1. Elements of Psychology.

EWER, EYRE

The fundamental facts and laws of the mind. Principles of sensation, perception, memory, thought, feeling, emotion, instinct and will. The relation of mental processes to the nervous system and to action. Each semester. First semester, Ewer, *III*, Eyre, *V*; second semester, Ewer, *VI*; Eyre, *V*.

B3a-B3b. Elements of Psychology.

WILLIAMS

A more comprehensive course than B1, including classroom experiments and demonstration in addition to text book, reference books and lectures. *IV*.

8. Applications of Psychology.**WILLIAMS**

A critical study of the fundamental principles underlying all applied psychology together with their application in various fields. Second semester, Williams, *III*.

106. Problems of Psychical Research.**EWER**

The mysterious phenomena of the mind presented in the light of scientific psychology. The subjects considered include hyperesthesia, automatisms, illusions and hallucinations, hypnotism, contemporary occultism and spiritualism. Second semester. *VII*.

107. Educational Psychology.**EWER**

Practical applications of psychology to education. The inherited nature of the learner; principal features of the learning process; principles of educational discipline; methods of mental measurement. Each semester. First semester, *VIII*; second semester, *V*.

109. Advanced Psychology.**WILLIAMS**

A study of the various systematic points of view in contemporary psychology, principally those of structuralism, functionalism, behaviorism and mentalism. Second semester. *V*.

16. Comparative and Genetic Psychology.**WILLIAMS**

An intensive study of the methods used and the results obtained in the fields of animal and infant psychology. First semester. *VII*.

18. Experimental Psychology.**WILLIAMS**

A laboratory course in psychology accompanied by lectures and discussions of the principles of scientific method used in psychological investigations. First semester. Class, *MF*, *V*; laboratory, *W*, 1:15-4:10. Laboratory fee, \$2.00.

12. Social Psychology.**EWER**

Mental processes underlying social order and progress; the individual as the social unit; collective forms of behavior. First semester. *IV*.

17. The Nature and Measurement of Intelligence.**WILLIAMS**

A study of the principles and methods of intelligence testing with special emphasis upon the methods of giving the Stanford and Herring Revisions of the Binet Tests. Second semester. *VIII*.

24. Abnormal Psychology.**EYRE**

The principles which constitute the normal mind. Functional

types of mental disorder, and their causes; measures for the recognition and prevention. Second semester. *IV*.

D125. Mental and Physical Hygiene in Education. EY

(See Education, D125.) First semester. *IV*.

D240. Investigation of Psychological Problems.

WILLIAMS, EV

A study of certain psychological problems. The topics change from year to year. 2 hours. First semester, Williams; second semester, Ewer. *A*.

PUBLIC ADDRESS

A1a-A1b. English: An Introductory Course. SC

(In cooperation with the Department of English)

The fundamental principles of literary criticism and interpretation together with reading and study of specimens of the most important literary types; instruction and practice in writing and speech. 4 hours. Prerequisite for all other departmental courses. Men: *WF, III*; section meetings at *IV*. Women: *TTh, IV*; section meeting at *III*.

B32a-B32b. Public Address. SC

Exercises in voice development and platform deportment. Training in analysis of subjects, selection and arrangement of material, psychological adaptation of material and treatment of specific audiences. 2 hours. *MW, V*.

B33a-B33b. Principles of Reading. SC

Study of the technique of effective oral interpretation of literature. Application of this technique in the reading of a varied selection of literary types. 2 hours. *TTh, VI*.

B35a, B35b. Argumentation and Debate. SC

Study of the principles of argumentation and practical application of these principles in class debates. Debate subjects for the year analyzed and debated. 2 hours. *A*.

C131a-C131b. Advanced Public Address. SC

Training in the construction and delivery of formal addresses. Prerequisite: Public Address B32 or equivalent. 2 hours. *WF, VII*.

C134a, C134b. Reading of Dramatic Literature. SC

The intensive study of a limited number of standard plays with emphasis on dramatic values in character and plot. Interpretative reading of these plays in class. Recital program before the class. Prerequisite: Public Address B33 or equivalent. 2 hours. *TTh, VIII*.

RELIGION

1. Orientation in Religion. BROOKS

A study of the influence of modern thought in the interpretation of religion and of the contribution of religion to civilization. 2 hours. Each semester. *VI.*

3a, B3b. The Contribution of the Hebrews to Religion. BROOKS

2 hours. *TTh. VIII.*

6. Introduction to New Testament. HAND

A careful study of such questions as date, authenticity, authorship, composition, integrity, purpose and contents of the documents which comprise the New Testament. First semester. 2 hours. *TTh, XII.*

7. The Teachings of Jesus. HAND

Special emphasis is laid on Jesus' conception of the Kingdom of Heaven, his revelation of God and his doctrine concerning his own person and his claims on the fealty of men. Second semester. 2 hours. *TTh, XII.*

8. The Evolution of the English Version. HAND

A study of the various texts and versions by which the Bible has come to be a literary possession of the English-speaking race. First semester. 2 hours. *TTh, XII. (Omitted in 1928-1929.)*

9. The First Interpreters of Jesus. HAND

A study of the teachings of Paul and the general epistles as they have modified and interpreted Christianity. Second semester. 2 hours. *TTh, XII. (Omitted in 1928-1929.)*

104a, C104b. Christian Origins. BROOKS

The purpose is to understand the program of Jesus in relation to present day problems. A survey of the transformation in Christianity in the age of the Apostles. *V.*

109a, C109b. The Religious World. BROOKS

This course surveys the origin and growth of religious experience, the characteristics of a fully developed religion, the rise of modern religious ideas, and the place of religion in social reconstruction. *III.*

125. History of Religions. TAYLOR

A study of the nature of religion, with special reference to the essential facts of early religions, and a more thorough study of existing non-Christian religions, their chief teachings and influences. First semester. *VI.*

C126. History of Christianity.**TAYLOR**

A study of the chief facts of Christian history, with reference to the great leaders and teachings of Christianity. A study of successive movements through which God has worked out his purpose. Second semester. *VI.*

C133. Principles of Religious Education.**TAYLOR**

A study of the psychological, pedagogical, and sociological principles underlying the practical work of religious education, with special reference to the ultimate and immediate aims of religious education in the modification of human nature, and the necessity of conscious personal participation in vital social experiences as the bases of all educational religious values. First semester. *IV.*

C134. Materials and Methods of Religious Education**TAYLOR**

This course emphasizes the necessity of the scientific approach in teaching religion. It includes a study of the criteria for evaluating the curriculum of religious education, the method principles of interpreting and teaching religion, and the relation of religion to the sciences. Second semester. *IV.*

SPANISH**A21a-A21b. Elementary.****HUSSON**

Essentials of grammar and pronunciation. Dictation, reading from easy modern texts. *VI.*

B23a-B23b. Nineteenth Century Novel.**HENDRICKSON**

Selections from Pérez Galdós, Valdés, Blasco Ibáñez, Benavente. Collateral readings and reports, review of grammar, conversation. Prerequisite: Spanish A21 or equivalent. *V.*

C125. (bis.) Contemporary Drama.**HUSSON**

A study of Benavente, Linares, Rivas, and other leading dramatists of the present century. Collateral readings and reports in Spanish. Second semester. *VIII. (Omitted in 1928-1929.)*

C126. Drama of the Golden Age.**HUSSON**

Readings from Calderón, Lope de Vega, Tirso, J. R. de Alarcón. Lectures in Spanish upon the history of Spanish literature. Collateral readings and reports. Required of those majoring in Romanic Languages and specializing in Spanish. Second semester. *VIII.*

C127a-C127b. Spanish Composition.**HUSSON**

Intensive drill in oral, and especially in written composition. Prerequisite: Spanish B23. *TTh, IV.*

D128a-D128b. La America latina JONES

A comprehensive study of the geographical, historical and social phases of the leading Latin American nations. Prerequisite: Spanish C125 and C126. *II.*

D129. Spanish Prose Classics.

La Celestina. El Lazarillo. El Quijote. Prerequisite: Spanish C126. First semester. *VI. (Omitted 1928-1929.)*

D130. The Spanish Epic.

The early Spanish ballads. El Poema del Cid. A study of the earliest manifestations in Spanish literature. Prerequisite: Spanish C126. Second semester. *VI. (Omitted in 1928-1929.)*

D219. The Teaching of Spanish.**HUSSON**

Second semester. *WF, III.*

ZOOLOGY**B3a-B3b. The Human Body.****GILCHRIST**

A course in the structure and function of the human body. Students may enter the course either semester, but must attend both semesters for credit. Class periods, *MF, I*; laboratory, *Th, 1:15-4:10*. Laboratory fee, \$6.00 each.

B11, B12. General Zoology.**HILTON, GILCHRIST**

A general course which deals with the classification, general habits and distribution of animals. The first semester considers the invertebrates, in the second attention is given to the comparative structures of back-boned animals. Prerequisite: Biology A1, or Zoology B3 or equivalent of one of these. Class, *TTh, II*; laboratory, *T or W, 1:15-4:10*. Laboratory fee, \$6.00 each.

D110. General Physiology.**GILCHRIST**

A study of function: including such topics as protoplasm, metabolism, irritability, and behavior. Prerequisites: Inorganic Chemistry and Zoology B3 or B11. First semester. Lectures, *TTh, VIII*. Laboratory, *T, 1:15-4:10*. Laboratory fee, \$6.00. Alternates with C111.

D111. Advanced Invertebrate Zoology.**GILCHRIST**

A study of the classification and ecology of invertebrates (other than land arthropods), with especial reference to the local fauna. There will be a number of field excursions to nearby fresh waters and to the coast. Prerequisite: Zoology B11. First semester. Lectures, *TTh, VIII, 4:15*; laboratory, *T or F, 1:15-4:10*. Laboratory fee, \$3.00. Alternates with C110. *(Omitted in 1928-1929.)*

D112. Advanced Vertebrate Zoology.**GILCHRIST**

A lecture, field, and laboratory study of vertebrates, with

special reference to the local fauna. A considerable proportion of the course will be devoted to birds. Prerequisite: Zoology B11. Second semester. Lecture or field excursion, *TTh, I* laboratory, *T or F, 1:15-4:10*. Laboratory fee, \$3.00. Alternates with C118.

C118. Entomology.

HILTO

A general course in the structure and classification of insects. Each student makes his own collection for identification and study. Prerequisite: Zoology B11. Second semester. Class period, *T, VIII*; laboratory, *W* and *Th, 1:15-4:10*. Laboratory fee, \$6.00. Alternates with C112. (*Omitted in 1928-1929.*)

D113. Histology.

HILTO

The microscopic anatomy of the tissues and organs especially of vertebrates. Some attention is given to methods. The course is very helpful to special students of zoology or psychology as well as those preparing for medicine. Prerequisite: Zoology B3 or Zoology B11, B12. Class, *T, IV*. Laboratory by appointment. One class, two laboratory periods. Laboratory fee, \$8.00. (*Omitted in 1928-1929.*)

D114. Neurology.

HILTO

A general consideration of the structure and functions of the nervous system and sense organs chiefly of vertebrates. The course is especially helpful for special students of psychology as well as those intending to study medicine. Prerequisite: Zoology D113. Second semester. Class *T, IV*. Laboratory by appointment. One class, two laboratory periods. Laboratory fee, \$6.00.

D117a, D117b. Embryology.

GILCHRIS

The first semester deals with maturation, fertilization and early development. The second semester is concerned with the formation of organs. Prerequisite: Zoology B3 or B11 and B12. Class, *A*; laboratory, *MW, 1:15-4:10*. Laboratory fee, \$8.00 each.

D131. Zoological Literature.

HILTO

Reviews of important contributions in all fields of recent Zoological literature. Open to Juniors and Seniors. Second semester. 1 hour. *F, I*.

D135. Zoological Problems.

HILTON, GILCHRIS

This course is for undergraduates who are prepared to undertake special work in general Zoology, Physiology, Entomology, Anatomy or Embryology. Such problems may be with local insects or other animals or they may be of a general nature dealing with life functions and structures. Either semester. to 3 hours. *A*. May be repeated for credit. Laboratory fee, \$2.00 per hour.

SUMMER SESSION 1928

COURSES OF INSTRUCTION

CLAREMONT DIVISION

ART

- | | | |
|------|---------------------------------|----------|
| 110. | History and Appreciation of Art | SPALDING |
|------|---------------------------------|----------|

CHEMISTRY

- | | | |
|------|-----------------------|----------|
| 115. | Elements of Nutrition | ROBINSON |
|------|-----------------------|----------|

CLASSICAL LITERATURE

- | | | |
|------|---------------------------|---------|
| 113. | Greek and Roman Mythology | ROBBINS |
| 116. | Roman Private Life | ROBBINS |
| 117. | Greek History | ROBBINS |

ECONOMICS

- | | | |
|------|--|--------|
| 106. | Public Finance | DUNCAN |
| 117. | Social and Economic Problems of the Orient | DUNCAN |

EDUCATION

- | | | |
|-------|---|----------|
| 107. | Educational Psychology | WILLIAMS |
| 119. | Classroom Methods and Management | DOUGLASS |
| 130. | School Law | ALLEN |
| 104b. | History of Education in the United States | NICHOLL |
| 108. | Education for Citizenship | NICHOLL |
| 114. | The Junior High School | FITTS |
| 117. | The Measurement of Intelligence | WILLIAMS |
| 118. | Educational Tests and Measurements | WILLIAMS |
| 125. | Growth and Development of the Child | EYRE |
| 101. | Content and Methods of Teaching English in
Elementary Schools | FITTS |
| 102. | Content and Methods of Teaching the Social
Studies in Elementary Schools | COOKE |
| 206. | Public School Finance | DUNCAN |
| 212. | Philosophy of Education | NICHOLL |

SD215.	Principles of Secondary Education	DOUGLAS
SD217.	Seminar in Education	DOUGLAS
SD218.	School Organization and Administration	ALLEN
SD220.	Organization and Supervision of Instruction	ALLEN

ENGINEERING SCIENCE

SB11.	Field Surveying. (At Bluff Lake Summer Camp)	TAYLOR
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ENGLISH

SA51.	English for Foreign Students	RICCIARDI
SB8.	From Ibsen to O'Neill	HARRIS
SC120.	Six Novelists of the Nineteenth Century	HARRIS

FRENCH

SA1.	Elementary French	JONES or BISSON
SB3.	Intermediate French	JONES or BISSON

HISTORY

SC114.	Personalities of Contemporary Europe	COOK
SC117.	Greek History	
	(See Classical Literature SC117)	

LIBRARY SCIENCE

SC101.	School Library Administration	KERR
SC102.	Book Selection	KERR

MATHEMATICS

SA1.	Solid Geometry	RUSSELL
SA2.	Trigonometry	RUSSELL
SA4.	College Algebra	RUSSELL
SB13.	Analytic Geometry	RUSSELL

MUSIC

Violin	UNIACK
Piano	WESLEY
Organ	CLOKE

COURSES OF INSTRUCTION

79

PHYSICS

3A2.	An Interpretation of Physical Science	TILESTON
3C110.	Slide Rule and Precision of Measurements	TILESTON
3D120.	Problems for Investigation	TILESTON

POLITICAL SCIENCE

3B2.	The Constitution of the United States	FAIRMAN
3C102.	Political Parties	FAIRMAN
3D118.	An Outline of International Law	FAIRMAN

PSYCHOLOGY

3B8.	Applications of Psychology	EYRE
3C107.	Educational Psychology	WILLIAMS
3D117.	The Measurement of Intelligence	WILLIAMS
3D124.	Abnormal Psychology	EYRE

PUBLIC ADDRESS

3A31.	Fundamentals of Speech	SCOTT
3C134.	Interpretative Reading of Dramatic Literature	SCOTT

RELIGION

3B6.	Introduction to New Testament	HAND
3C133.	Principles of Religious Education	TAYLOR

SPANISH

3A21a and b.	Elementary Spanish	HUSSON
3B23a and b.	Intermediate Spanish	HUSSON
3C125.	Nineteenth Century Literature	JONES

LAGUNA BEACH DIVISION

3B11.	General Zoology	HILTON
3B15.	Marine Zoology	HILTON
3C16.	Human Biology	HILTON

ADMINISTRATION

PUBLIC ASSEMBLIES

It is the practice of the College to give opportunity for the consideration and expression of the common college interests.

On Monday, Wednesday and Friday at 9:30 a. m. a brief devotional chapel service is held.

On Tuesday of each week at 11:30 a. m. an assembly period is provided for the use of the Associated Students.

Approximately once each month during the college year a special convocation is called for the consideration of topics of vital interest to the whole institution. Full attendance of both faculty and students is expected at these exercises.

The policy of the College is to urge the students to associate themselves for worship with the Claremont Church or those of neighboring communities. For this reason there is no regular appointment for College worship on Sunday, though many forms of religious activity are maintained in connection with the churches.

REPORTS ON SCHOLARSHIP

Once each week a report is called for from each instructor, in which he is asked to indicate such of his students as are doing failing work.

At or near the middle of each semester a report is made of students doing failing or unsatisfactory work. This report is made with special care and refers to the average standing of each student for the half-semester preceding.

At the end of each semester a complete report is made on all students. This report becomes part of the student's record and indicates the semester's standing in the courses for which he has been registered.

PHYSICAL ATTENTION

The physical care of students is a matter of special concern to the College and the advantages of unusual attention and opportunity are offered. The climate of Southern California offers an out-of-door life the year round. Supervision is given to athletics in all seasons. A regular physician is on the faculty of the College, under whose direction every student on entering has a physical examination. Regular work in physical education is prescribed throughout the four years, and courses in Physiology and Hygiene are given. A large swimming pool is provided, access to which is free to all students, subject only to semi-annual physical examination. The medical advice of the College physician is ordinarily available free of charge to all students, subject to certain conditions of hours and location of residence, the College meeting these bills; provided that all nursing, surgical dressing, and medicines as well as medical service in chronic or protracted illness are at the expense of the student or injured. *The College, however, reserves the right to discontinue this individual medical service at any time without previous notice.* As a natural result of all this attention the health of the College is such as to give special assurance to all considering attendance at Pomona.

GENERAL REQUIREMENTS

Students are expected to be loyal to the spirit and purpose of the institution and to maintain regular attendance on all College appointments. Any student who falls below grade in scholarship, or who, for any reason, in the judgment of the faculty or its proper committees, is felt not to be a desirable member of the student body, may be dismissed without specific charges.

It is assumed that, as far as possible, students will room at the College residence halls and board at the College dining-rooms. Any other arrangement for room or board must have the approval of the proper Dean. Lists of approved rooms for men are kept

at the office of the Dean of the College; for women, at the office of the Dean of Women. All rooms in the College residence halls are rented for the College year. Unless there is written agreement to the contrary, it is assumed that rooms in private houses are rented for one semester. Change of rooms is made only by permission of the Deans.

To avoid misunderstanding between students and householders, it is advised that agreements regarding rooms be put in written form.

It is urgently pointed out to both students and parents that the value of a college education consists in no small degree in the fullest participation in the college atmosphere and life. It is important, therefore, that all absence through the college year should be avoided. Some of the most important of the college values are lost by absences on Saturday and Sunday, on which days are centered particular and vital phases of the common life, and it is therefore urged that over-Sunday visits at home or elsewhere be avoided.

EXPENSES

ROOMS IN COLLEGE RESIDENCE HALLS. A deposit of \$10.00 is necessary to secure a room and should accompany the application for the room. This amount is retained as a breakage fee, from which deductions will be made for individual and communal damages to the building, the balance being returned at the end of the year. Rooms are assigned to new students in order of application.

The charge for rent does not include the use of the halls during the Christmas and Spring vacations, when the halls are closed. The residence halls are opened the Saturday before the opening of the College year and closed the second day after commencement.

Each room is provided with the necessary furnishings, includ-

ing rug for the floor; the only articles to be furnished by the student are towels, and linen and covers for a single bed.

The College reserves the right to dismiss from a dormitory without rebate any student who becomes a disturbing or undesirable occupant.

RESIDENCE HALLS FOR MEN. Smiley Hall, the dormitory for men, has both single rooms, and suites of three rooms accommodating two students. Each occupant pays \$100.00 for the College year.

It is expected that the first unit of a new group of dormitories for men will be ready for occupancy by September, 1929. This unit will be large enough to house all men of the Freshman class and according to the present plans for administration—which as yet are only tentative—all men of the Freshman class except such as are living at home with their parents will be required to reside in this dormitory. Description of accommodations and charges herefor will be announced at an early date.

RESIDENCE HALLS FOR WOMEN. Harwood Court, the beautiful residence hall for women, in which is included the dormitory known as Strong Hall has both single and double rooms, as well as suites for two or three students. For each individual the charge is ordinarily \$150.00 for the College year. In a few cases rooms are \$130.00 each, if occupied by two students; \$200.00 if occupied by one.

The cottages have double rooms, each student paying from \$80.00 to \$150.00 per year, according to the location of the room.

BOARD. Women occupying College residence halls or cottages are expected to board in the Women's dining-room, and rooms are rented in these buildings only in conjunction with the advance payment for board. Freshman women not resident in their own homes are also expected to board in the Women's dining-room.

The rates for board are the lowest consistent with good quality of food and service. The costs for 1928-1929 were \$270.00. Arrangements may be made to pay by installment at a slightly higher rate than by the semester. All board bills are payable in advance.

In addition to the College dining-room there is a cafeteria dining-room seating approximately one hundred students. The quality and cost of food in the two rooms are the same.

A large dining hall, capable of seating four hundred men, planned in connection with the first unit of the new dormitory group referred to above. Although plans for the administration of this dining hall are as yet tentative, it is expected that all male students not actually living at home with their parents, will be required to board in this dining-room.

Men or women wishing to board at other approved places than the College dining-room or the cafeteria may do so by the permission of the proper Dean, except as specified above.

SUMMARY OF EXPENSES. The necessary expense for the College year, exclusive of fees for special courses and expenses which are purely personal, is about \$750.00.

BILLS. All College bills are due each semester in advance and must be paid by the student at the time of registration. No refunds are made to those leaving before the end of the semester except that in the case of those leaving before the middle of the semester because of illness one-half of the tuition and laboratory fees are refunded and in the case of those dropping out for good cause within a week of their registration all but \$25.00 is returned. No refund is made on a room payment unless the room is re-rented to someone not then rooming in a college residence hall.

Students are not given honorable dismissal nor graduated who have bills are not paid. Seniors must settle all recognized bills by four p. m., of the fourth day preceding Commencement if they are to receive their diplomas with their class.

TUITION

GENERAL CHARGES

Regular tuition, including all general privileges, Music and Drama Course Ticket, Library privileges, etc., per semester	\$150.00
Tuition for students carrying less than twelve hours of work, for each such hour, per semester exclusive of above general privileges.....	12.50
Laboratory fees, as stated after description of courses.	

CHARGES IN MUSIC AND ART¹

For those paying regular tuition:	
For one half-hour private lesson in music per week, per semester	\$ 45.00
For each half-hour private lesson in excess of one per week, per semester.....	40.00
For each class lesson per week in art, per semester.....	18.00
For those carrying less than twelve hours of college work, exclusive of work in music or art:	
For one-half hour private lesson in music per week, per semester	60.00
For each half-hour private lesson in excess of one, per semester	40.00
For each class lesson in art per week, per semester, for the first lesson.....	25.00
For each additional lesson.....	18.00

FEES

Application fee, \$2.50.
 Graduation fee, \$10.00.
 Laboratory fees range from \$2.00 to \$15.00. The exact fee for a given course is stated in connection with the description of that course under *Courses of Instruction*; in advanced courses only does it exceed \$10.00.
 A visitor's fee of \$5.00 is required from those visiting a course of study and \$3.00 for each additional course.

BREAKAGE DEPOSITS

Bacteriology and Plant Physiology, \$5.00 each.
 Chemistry, \$10.00 for each course taken.

Students may register for Applied Music at any time, equitable charges being arranged upon application.

Practice fees for the use of College pianos and organs:

PIANO

One-half hour daily, per semester (voice students)\$ 3.50

One hour daily, per semester..... 6.00

Additional hours at the same rate.

GRAND PIANO

One hour daily, per semester.....\$ 9.00

Additional hours at the same rate.

GREAT ORGAN IN BRIDGES HALL

One hour weekly, per semester.....\$ 7.50

Additional hours at the same rate.

PRACTICE ORGAN

One hour weekly, per semester.....\$ 3.00

Additional hours at the same rate.

PEDAL ORGAN

One hour daily, per semester.....\$9.00

Additional hours at the same rate.

PRACTICE FEE, VIOLIN OR VIOLONCELLO

Room without piano, one hour daily, per semester.....\$ 1.50

Additional hours at the same rate.

HONORS AND PRIZES

HONORS AT GRADUATION

Honors at graduation and the courses leading to them are explained under *Curriculum*.

THE PHI BETA KAPPA SOCIETY

The Pomona Chapter of Phi Beta Kappa is the Gamma of California.

Upperclassmen "who are of good moral character, who are candidates for the degree of Bachelor of Arts, and who are distinguished for breadth of culture and excellence of scholarship" are eligible to membership in the Phi Beta Kappa Society.

PRIZES

The following prizes are offered for proficiency in the work of the several departments:

THE BARBARA SANFORD ALLEN PRIZE: An annual competitive prize of fifty dollars to be awarded to a student of organ playing in the Department of Music. This award is made possible by the husband and parents of a graduate of the Class of 1915 of Pomona College.

THE RENA GURLEY ARCHIBALD HIGH SCHOLARSHIP PRIZE: A prize of fifty dollars to be awarded to that member of the graduating class taking the B.A. course and ranking highest in scholarship, established by the bequest of the late Reverend Andrew W. Archibald, D.D.

THE LLEWELLYN BIXBY MATHEMATICS PRIZE: A prize for excellence in Analytic Geometry and Calculus; open to all students completing both Mathematics B13 and C115. A prize of ten dollars is given by Mr. Llewellyn Bixby.

THE DOLE PRIZES: A prize debate upon some subject selected by the faculty, is arranged for the close of the second semester. First and second prizes of fifteen and ten dollars, respectively, established by the late Mr. J. H. Dole, in memory of his brother, Mr. W. B. Dole, are endowed by Mr. J. Albert Dole and Mr. A. M. Dole.

THE HAGER PRIZES: Prizes for the best essays on a foreign missionary subject, open to all students were endowed by the late Mr. and Mrs. C. R. Hager. At present three prizes of ten dollars each are given.

THE JENNINGS PRIZES: Eight prizes awarded at the end of each semester to Freshmen taking English A1, to the two men and the two women showing the best mastery over written and oral expression and also two to the men and two to the women showing the most gain during each semester in these respects. The total amount of the prizes is \$600.00, the gift of Mr. Paul R. Jennings of San Diego.

THE KINNEY PRIZES: A prize declamation contest, open to the members of the Freshman class, occurs toward the end of the first semester. First and second prizes of fifteen and ten dollars, respectively, are endowed by Mrs. H. N. Kinney.

THE LORBEER PRIZES: Prizes for the best essay on the subject, "How to Keep Well"; open to all who take the course in Anatomy and Physiology. First and second prizes of fifteen and ten dollars, respectively, are given by Dr. Thomas L. Lorbeer, '03.

THE MONCRIEFF ASTRONOMY PRIZE: A prize given to the student in the first year course in Astronomy, taken regularly in class, whose interest in the study and proficiency in the observatory work are indicated by the best notebook kept in accordance with the teacher's suggestion. A prize of ten dollars is given by Miss Flossie C. Moncrieff, '11.

THE MUDGE LATIN PRIZES: Prizes for excellence in Latin. First and second prizes of ten and five dollars, respectively, are endowed by friends of the College.

THE VAILE PRIZES: Prizes for the best essay or oration on the general subject of Agriculture in Southern California open to the Junior and Senior classes, were endowed by the late Mr. Charles S. Vaile. At present first and second prizes of fifteen and ten dollars respectively are given.

SCHOLARSHIPS AND BENEFICIARY AID

The income of certain funds is used towards paying the tuition of students who are in pecuniary need, and, by authorization of the trustees, is distributed annually through a committee of the faculty. Scholarship aid is given only to students who are or intend to become candidates for a degree from Pomona College, who maintain a high standard of honor, who are economical in their habits, who do not use tobacco, who are regular in their attendance upon college exercises, and whose scholarship meets the following condition: The maintaining, after the first semester of the Freshman year, of at least "C" grade.

Applicants for aid who have not yet entered College should forward to the Chairman of the Committee on Student Aid and Scholarship, a formal application accompanied by two letters, one from parent or guardian and the other from principal or teacher, giving information concerning need, character and attainments. They should also send a certified statement of their scholastic record. All applications for aid must be renewed annually on or before May first.

Aid may be withdrawn at any time from students who prove unable to have conformed to the conditions, and is permanently withdrawn after the second forfeiture due to low standing or unsatisfactory deportment.

Recipients of scholarship aid may be called upon to assist the College in ways that do not interfere with their studies.

Awards are made from the income of the following funds:

ROMBIE ALLEN SCHOLARSHIP FUND OF \$500, income available annually to a graduate of Chaffey Union High School of Ontario, California.

THE FRANCIS BANCROFT MEMORIAL FUND, \$1,500. Given by Mrs. James T. Ford of Los Angeles, California, in memory of her father.

FUND OF \$2,500. Given by L. H. BARROWS.

THE MARTHA E. BERRY MEMORIAL SCHOLARSHIP OF \$5,000. Given by Miss Elizabeth E. Berry. For foreign students.

THE H. G. BILLINGS MEMORIAL SCHOLARSHIP, \$1,000. Given by Mrs. E. A. Billings of Los Angeles, California, in memory of her husband.

THE MABEL S. BRIDGES MEMORIAL SCHOLARSHIP, \$3,500. Given by Mr. and Mrs. A. S. Bridges of San Diego, California, in memory of their daughter. Available for women.

THE KATE CONDIT BRIMHALL MEMORIAL MUSIC SCHOLARSHIP FUND, \$2,000. Given by the late Mr. and Mrs. A. P. Condit.

THE BRISTOL MEMORIAL FUND, \$400. A fund raised as a memorial to the Reverend Sherlock Bristol.

THE HENRY HERBERT BROWN SCHOLARSHIP FUND, \$1,000. Given by Mrs. Fannie E. Brown of Los Angeles, California, in memory of her son.

THE BESSIE A. BROWN SCHOLARSHIP FUND, \$1,000. Given by Mrs. Fannie E. Brown of Los Angeles, California, in memory of Bessie A. Brown.

A FUND OF \$961.78. Given by the Class of 1918 towards the founding of a scholarship.

THE CHARLES C. CRAGIN MEMORIAL SCHOLARSHIP FUND, \$5,025. Given by Mrs. Laura E. Cragin in memory of her husband, Rev. Charles C. Cragin.

THE AGNES K. CRAWFORD MEMORIAL FUND, \$1,000. Given by David R. Crawford and William Crawford, in memory of their mother.

EBELL CLUB OF POMONA SCHOLARSHIP FUND, \$800.

A FUND OF \$2,600. Given by Mary E. Elwood of Redlands, California.

A FUND OF \$2,500. Given by Rev. James T. Ford of Los Angeles, California.

A FUND OF \$1,000. Given by Mrs. Margaret Fowler of Pasadena, California.

A GENERAL FUND OF \$29,430.

THE MANETTE HAND MEMORIAL SCHOLARSHIP FUND OF \$1,200.

ALICE PAUL HARWOOD SCHOLARSHIP FUND OF \$4,000. Open to graduates of Chaffey Union High School of Ontario.

A FUND OF \$5,000. Given by Charles E. Harwood, LL.D., of Upland.

THE THOMAS F. HOWARD MEMORIAL SCHOLARSHIP FUND, \$2,000. Given by Dr. and Mrs. H. G. Brainerd of Los Angeles, California, in memory of Mrs. Brainerd's father.

KAPPA DELTA HONOR SCHOLARSHIP OF \$467.50. Given by members of Kappa Delta fraternity.

STELLA M. KING SCHOLARSHIP FUND FOR WOMEN, \$10,000.

A FUND OF \$2,000. Given by Henry L. Kuns of La Verne.

A FUND OF \$2,000. Given by Miss Jean Loomis, '97.

THE HOWARD J. MILLS FUND OF \$3,000. Given by Mrs. Howard J. Mills of Los Angeles, California, in memory of her husband.

THE ONTARIO CONGREGATIONAL CHURCH FUND, \$186.50. Given by the Ontario Congregational Church towards the founding of a scholarship.

A FUND OF \$5,000. Given by Mrs. Loraine H. Page of Pomona, California. (Three thousand dollars of this may at some time be used for other purposes.)

THE ARTHUR WARREN PHELPS MEMORIAL SCHOLARSHIP FUND, \$2,000. Given by the late Mrs. C. S. and Mr. C. A. Phelps, in memory of their son and brother.

THE LYDIA PHELPS MEMORIAL FUND, \$4,000. Given by Hiram E. Phelps of Ontario, California, in memory of his wife.

THE PILGRIM CHURCH OF POMONA FUND, \$1,524.94. Given by the Pilgrim Congregational Church of Pomona towards the founding of a scholarship.

THE PILGRIM CHURCH WOMEN'S AUXILIARY FUND, \$400. Given by the Women's Auxiliary of the Pilgrim Congregational Church of Pomona.

THE JOHN D. POTTER MEMORIAL FUND, \$2,000. Given by Mrs. J. T. Potter of Westboro, Massachusetts, in memory of her husband.

THE FRANCIS M. PRICE FUND OF \$1,000. For children of missionaries.

A FUND OF \$1,800. Given by Dr. Anna H. Searing of Escondido, California.

THE WALTER O. SHATTO MEMORIAL FUND, \$4,000. Given by Mrs. Clara R. Shatto in memory of her husband.

THE CLYDE H. SHIELDS SCHOLARSHIP FUND, \$1,200. Given by C. P. Shields of San Diego, in memory of his oldest son, who was drowned in 1894, when about twenty-one years of age.

THE SWEET SCHOLARSHIP FUND OF \$2,500. Given by Harlan P. Sweet in memory of his wife, C. Nell Sweet.

THE HANNAH TEMPEST SCHOLARSHIP FUND OF \$5,000. Income to be divided equally between a man and a woman studying art, in accordance with conditions laid down by the donor, Mrs. Hannah Tempest Jenkins.

A FUND OF \$2,000. Given by Miss Susan E. Thatcher of San Diego.

A FUND OF \$1,000. Given by Mrs. Maria T. Wardwell of Plymouth, Connecticut.

THE CLARA B. WATERMAN MEMORIAL SCHOLARSHIP FUND OF \$5,000.

A FUND OF \$2,000. Given by Henry S. West of Los Angeles.

The College also administers loan funds established by the bequest of Ellen H. Lyman and by George H. De Kay, Jr., in memory of his brother Frelin Campbell De Kay. By means of these funds, it is possible to co-operate in a moderate way, and temporarily, with the pressing need of students.

THE HARMON FOUNDATION extends to four selected students its assistance by a loan for tuition.

THE HENRY STRONG SCHOLARSHIPS (three scholarships of \$250 each), \$750. Established by the Henry Strong Foundation under the provisions of the will of Henry Strong, late of Chicago, Illinois, and Santa Barbara, California.

THE RAY LOAN FUND made possible by the gift of \$1000 by Mrs. E. F. Ray provides a means of meeting situations of temporary need among the students.

SELF-SUPPORT

A committee of the faculty endeavors to find employment for students needing to earn a part of their expenses. Many are helping themselves by various forms of labor such as janitor work, waiting on tables at the Commons, general house work, gardening and the like. The most desirable positions are in general secured by upperclassmen who have proven themselves good workers and good students, and those coming to the College for the first time should be content if any work which they can satisfactorily do is secured for them. Students in any case should come prepared to pay all bills for at least one semester. Their record during this semester will be a large factor in deciding what opportunities for self-help will be open to them. Applications for aid in securing employment should be addressed to the chairman of the Committee on Student Aid and Labor.

BUILDINGS AND EQUIPMENT

The College grounds consist of about three hundred acres, which sixty are included in Blanchard Park, about ten in Alumni Field, thirty in a prospective athletic field and fifty in the campus proper, centering in Marston Quadrangle.

There are nineteen buildings on the campus, heated from a central heating plant.

The Mary L. Sumner Hall, named in memory of the wife of Professor Charles B. Sumner, has been removed from its original site and remodeled for administrative and faculty uses.

Holmes Hall, a memorial of Cyrus W. Holmes, Jr., of Milton, Massachusetts, reconstructed in 1916 in conformity with more modern plans for buildings and campus, is devoted mainly to chapel, recitation rooms, the Business office, and the offices of the Registrar and the Dean of the College.

Pearsons Hall of Science, the gift of Dr. D. K. Pearson, contains the laboratories and lecture rooms of the departments of physics, psychology, mathematics and engineering.

The Library, the gift of Mr. Andrew Carnegie, is an imposing structure, exceptionally well adapted to the purposes for which it was built.

The Frank P. Brackett Observatory, the gift of Mr. Llewellyn Bixby, '01, is designed throughout to be of service to the student in the direct study of the stars.

The Albert K. Smiley Hall is the dormitory for men. It contains both single rooms and suites of three rooms, affording accommodations for eighty students. The dormitory has all modern conveniences and is completely furnished.

Harwood Court, a modern and pleasing dormitory, accommodates about one hundred and eighty women.

The College also owns several cottages, in which similar accommodations can be secured. These facilities have been made possible by large and generous gifts from friends of the College.

Rembrandt Hall, the first section of the Art Building, is devoted chiefly to the work of the Department of Art. The upper floor contains studio and work rooms; the lower floor a convenient auditorium of moderate size for exhibits and assemblies.

The Mabel Shaw Bridges Hall of Music, the gift of Mr. and Mrs. Appleton S. Bridges, of San Diego, offers opportunities for the study of music unexcelled in the West.

The Gymnasium, comprising three commodious structures, affords ample equipment for physical training and includes a large swimming pool.

The Claremont Inn has, besides two large student dining-rooms, accommodations for eighty guests.

The Open-Air Theater, built to take advantage of the natural setting of Blanchard Park, though uncompleted, has at present a seating capacity of over 4000.

The Harwood Hall of Botany, the gift of Mr. A. P. Harwood, of Upland, contains lecture rooms and laboratories for the use of the Department of Botany.

The Memorial Training Quarters stands as a remembrance of the Pomona College men who lost their lives in the Great War. It represents the gift of the parents of one of those men, Sheldon Curry, '17, supplemented by those of alumni, students and friends.

The Mason Hall of Chemistry, the gift of Mr. W. S. Mason, unsurpassed in structure and equipment for the study of Chemistry.

The Crookshank Hall of Zoology is the gift of Mr. D. C. Crookshank. It provides amply for the needs of the Department of Zoology.

The Marine Laboratory, located at Laguna Beach, has nine

private rooms for special workers and two general laboratories as well as storerooms, work rooms and aquarium room.

The Pomona College summer camp at Bluff Lake in the San Bernardino Mountains consists of five modern cabins, located on the tract of 120 acres given to Pomona College by Mr. J. Edwards. The camp, at an elevation of 7,500 feet, is in a region of great and unspoiled natural beauty.

Various smaller buildings add to the completeness of the College plant.

THE LIBRARY

The main library, of 63,646 books and 48,670 pamphlets has been carefully selected, and represents a working library of exceptional value.

The College possesses also the following library collections administered by the main library: The Cook-Baker Biological Library, the Parrish Botany Library, the James A. Lynn Memorial Library of Chemistry, the Astronomical Library, the New England Collection, the Mason Library of California and Western American History, the Viola Minor Westergaard Art Collection, and the Carnegie Art Collection.

The main library, the New England and the Mason California Libraries and the Westergaard and Carnegie Art Collections are housed in the Carnegie Library Building, the Cook-Baker Library and the Parrish Library in Crookshank Hall, the Astronomical Library in the F. P. Brackett Observatory, the James A. Lynn Memorial Library in the Chemistry Building.

The library is a depository for the publications of the Carnegie Institution of Washington, and for the United States Government documents. The library has a well selected list of the most valuable research and general periodicals, including many complete files.

DEPARTMENTAL ORGANIZATIONS

Under the general direction of various departments the following organizations have been formed:

THE POMONA COLLEGE GLEE CLUB
THE POMONA COLLEGE WOMEN'S GLEE CLUB
THE POMONA COLLEGE CHOIR
THE POMONA COLLEGE SYMPHONY ORCHESTRA
THE POMONA COLLEGE BAND
THE ASTRONOMICAL SOCIETY
THE SOCIETY OF PURE AND APPLIED MATHEMATICS
THE HISTORY CLUB
LE CERCLE FRANCAIS
EL CIRCULO ESPANOL
IL CIRCOLO ITALIANO
DER DEUTSCHE VEREIN
THE COSMOPOLITAN CLUB

STUDENT ACTIVITIES

THE ASSOCIATED STUDENTS. This association coordinates all student activities. Its officers are chosen by the student body from their own number. All important questions are considered by its executive committee, which is composed of those prominent students of such varied lines as athletics, oratory, and the editorship of the Student Life. This body has charge of inter-collegiate as well as inter-class relations.

ASSOCIATED WOMEN STUDENTS. The women of the student body form a voluntary organization, electing their own officers and committees and holding regular meetings. This organization considers and promotes the special interests of the women.

CHRISTIAN ASSOCIATIONS. Branches of the Young Men's Christian Association and the Young Women's Christian Association have long been influential factors in the life of the College.

Literary, debating and dramatic organizations are represented by the following:

THE POMONA COLLEGE DEBATING CLUB

ALPHA KAPPA

THE POMONA COLLEGE LYCEUM

DELTA LAMBDA

THE MASQUERS

PHI KAPPA SIGMA

ALPHA DELTA MU

THE COSMOPOLITAN CLUB

ATHLETICS. The direction and financial management of athletics rest with the Director of Athletics, who has associated with him as an advisory body the Athletics Council, composed of three members of the faculty and three students. Under the general manager there is a student manager for each sport.

Alumni Field, consisting of about ten acres, has been developed by the alumni into athletic grounds admirably equipped and unsurpassed in the Southwest in beauty of setting. First-class tennis courts, an excellent track, baseball and football fields, also hockey and basketball courts are within the limits of the campus, the courses of the Indian Hill Golf Club are available, and athletic exercises and field sports are encouraged by the officers of the institution.

A swimming pool, of the standard size for water polo, and fully equipped with modern appliances, is open to all students. An invariable condition to the use of the pool is a semi-annual medical examination.

Students are required to maintain a certain standard of excellence in all their studies in order to represent the College in any of its athletic teams or other organizations coming before the public.

PUBLICATIONS

The stated publications of the College are issued as numbers of the *Pomona College Bulletin*, which is published bi-monthly. These include:

The *Annual Catalog*.

The *Annual Register of Alumni*.

The *Annual Register of Trustees, Faculty and Students*.

The *Annual Announcement of Courses*.

The *Annual Directory*.

Alumni and departmental publications are:

The *Pomona College Magazine*, devoted to the interests of the college and Alumni, combining the *Quarterly* and the *College Letter*.

The *Journal of Entomology and Zoology*, published under the auspices of the Department of Zoology.

The *Publication of the Astronomical Society of Pomona College*, published under the auspices of the Department of Astronomy.

STUDENT PUBLICATIONS

The *Student Life* is published daily by the student body and devoted to current affairs.

Manuscript is a literary magazine issued four times a year.

The *Metate* is published each year by the associated students, and contains material appropriate to a college annual.

The *Hand Book*, which contains material designed especially for new students, is issued at the beginning of the year by the associated students.

BUREAU OF APPOINTMENTS

A Bureau of Appointments is conducted in connection with the office of the Secretary of the Faculty for the benefit of members of the College who desire to teach after graduation. The purpose of the Bureau is to maintain a list of available position and to recommend from the applicants registered those who are qualified for specific positions.

An opportunity is also offered graduates of the College who are already engaged in teaching, to register their present position and to indicate whether they desire a change, and if so, under what conditions. An effort is made to further the desires of graduates so far as made known. The services of the Bureau are entirely gratuitous. Communications should be addressed to the Bureau of Appointments.

SUMMARY OF STUDENTS

November, 1928

Seniors	176
Juniors	196
Sophomores	196
Freshmen	206
Specials	

Total Enrollment Regular Session..... 776

In addition to the above, 49 Claremont Colleges students and 62 Scripps College students are taking some work in Pomona College.

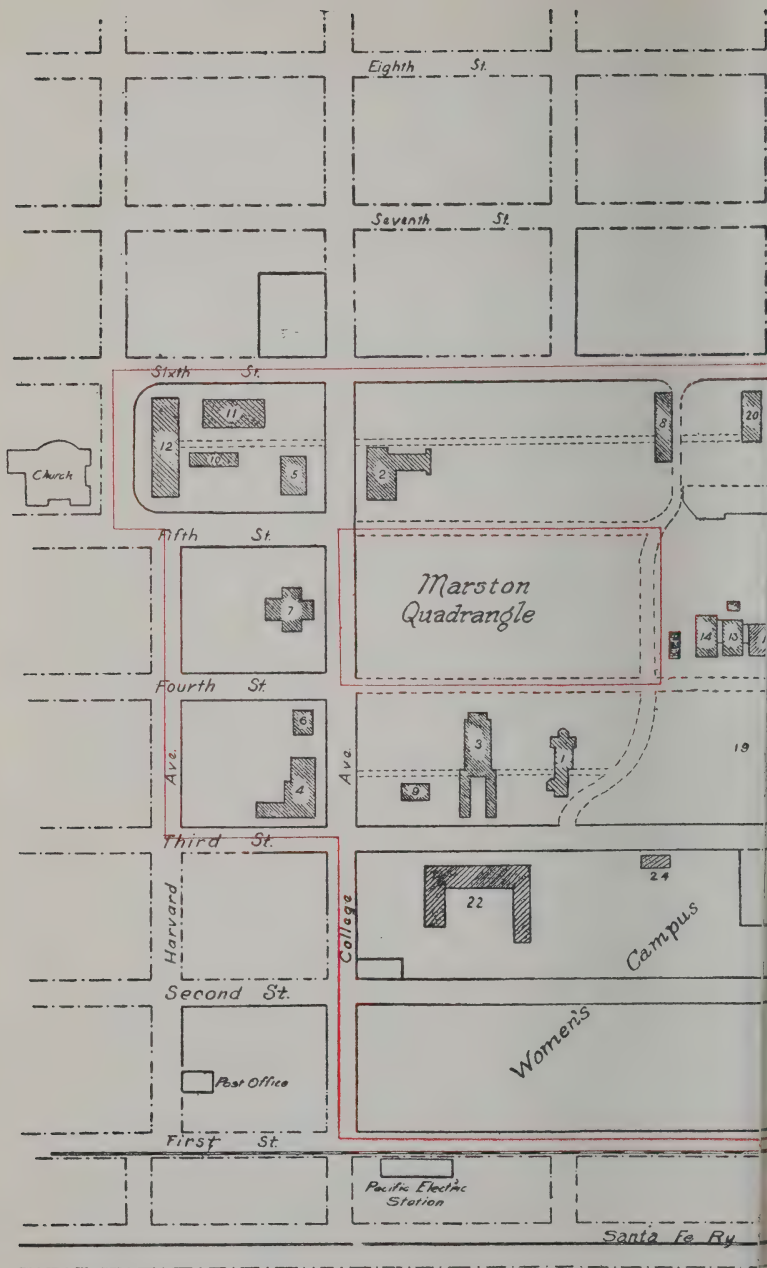
SUMMER SESSION

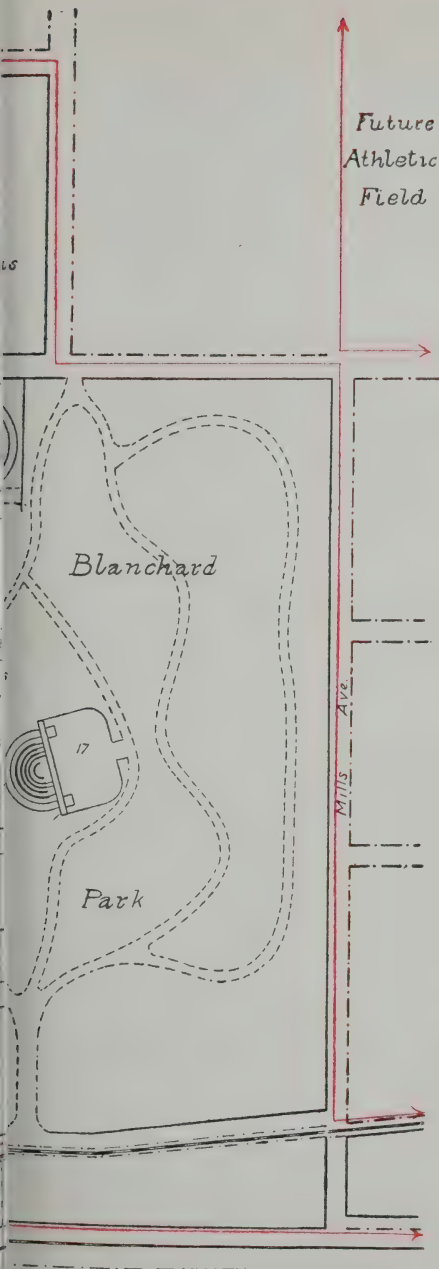
Regular Students at Claremont.....	266
Regular Students at Laguna.....	36
Regular Students at Bluff Lake.....	
Total	306

INDEX

- Administration, 80
- Admission, 27
 - as Special Students, 29
 - Description of Subjects
 - Accepted for, 28
 - Requirements for, 28
 - to Advanced Standing, 29
 - to Freshman Standing, 27
- Alumni Field, 94, 98
- Art, 38
- Assemblies, Public, 80
- Associated Students of Pomona College, 97
- Associated Women Students, 97
- Astronomy, 39
- Athletics, 98
- Bachelor of Arts, 31
- Bills, 84
- Biology, 40
- Blanchard Park, 94
- Bluff Lake Camp, 96
- Board, 83
- Board of Trustees, 15
 - Committees of, 16
 - Officers of, 15
 - Secretary of, 15
- Botany, 41
- Bridges Hall, 95
- Buildings and Equipment, 94
- Bureau of Appointments, 100
- Calendars, 4, 5
- Campus, 94
- Character of the College, 12
- Chemistry, 42
 - Mason Hall of, 95
- Choice of Subjects, 31
- Christian Associations, 97
- Church Attendance, 80
- Claremont Inn, 95
- Class Officers, 26
- College Entrance Examination
 - Board, 27
- College Physician, 81
- Concentration in Special Fields, 33
- Contents, 6
- Courses, Designation of, 37
- Courses of Instruction, 37
- Courses Required for Admission to Freshman Standing, 27
- Credit Requirements, 31
- Curriculum, 31
- Departmental Organizations, 97
- Dormitories—
 - Men, 83, 94
 - Women, 83, 94
- Economics and Sociology, 44
- Education, 47
- Election of Courses, 30
- Engineering Science, 48
- English, 49
- Examination, Entrance, 27
 - Medical, 27
- Expenses, 82
- Expenses, Summary of, 84
- Extra Entrance Credits, 29
- Faculty, 17
 - Committees of, 26
 - Visiting, 25
- Fees, 85
- French, 51
- General Requirements, 81
- Geology, 53
- German, 53
- Graduation Requirements, 32
- Greek, 54
- Gymnasium, 95
- Harwood Court, 83, 94
- Harwood Hall, 95
- Historical Sketch, 10
- History, 55
- Holmes Hall, 94
- Honors and Prizes, 87
- Honors, 33
- Hour Requirements, 31
- Inn, the Claremont, 95
- Italian, 57
- Laguna Beach, Marine Laboratory, 95
- Latin, 57
- Lecture Foundations, 36

- Library, 94, 96
- Location and Surroundings, 12
- Map of Campus, 103
- Marine Laboratory, 95
- Marston Quadrangle, 94
- Mathematics, 58
- Matriculation, 30
- Memorial Training Quarters, 95
- Military Science, 60
- Music, 61
- Music and Art Courses, 35, 86
- Music and Drama Course, 36
- Observatory, The Frank P. Brackett, 94
- Open-Air Theater, 95
- Pearsons Hall of Science, 94
- Phi Beta Kappa, 87
- Philosophy, 63
- Physical Attention, 81
- Physical Education, 64
- Physical Examination, 27
- Physics, 67
- Political Science and Law, 68
- Prizes, 87
- Psychology, 70
- Publications, 99
- Public Address, 72
- Public Assemblies, 80
- Reading for Honors, 33
- Registration, 29
- Religion, 73
- Rembrandt Hall, 96
- Reports on Scholarship, 80
- Requirements for Admission, 28
- Residence Halls, 83
- Rooms, 82
- Scholarships and Beneficiary Aid, 89
- Self-Support, 93
- Smiley Hall, 83, 94
- Sociology, 46
- Spanish, 74
- Special Students, Admission as, 29
- Strong Hall, 83
- Student Activities, 97
- Summary of Expenses, 84
- Summary of Students, 100
- Summer Session, 35
 - Courses of Instruction, 77
 - Visiting Faculty, 25
- Sumner Hall, 94
- Swimming Pool, 98
- Teachers' Certificates, 35
- Trustees, 15
- Tuition, 85
- Zoology, 75
 - Crookshank Hall of, 95





*Future
Athletic
Field*

1. *Sumner Hall (Administration)*
2. *Holmes Hall (Recitation and Chapel)*
3. *Bridges Hall (Music)*
4. *The Inn and Commons*
5. *Pearsons Hall (Science)*
6. *The President's House*
7. *The Library*
8. *Smiley Hall (Men's Dormitory)*
9. *Rembrandt Hall (Art)*
10. *Harwood Hall (Botany)*
11. *Crookshank Hall (Zoology)*
12. *Mason Hall (Chemistry)*
13. } *Gymnasium*
14. } *Buildings*
15. }
16. *The Observatory*
17. *Open-air Theater*
18. *Baseball Diamond*
19. *Tennis Courts*
20. *Memorial Training Quarters*
21. *Alumni Athletic Field*
22. *Harwood Court (Women's Dormitory)*
24. *Women's Building*
25. *Heating Plant*

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Pomona College

Annual Catalog

1930-1931



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CORRESPONDENCE

Correspondence should be addressed as follows, the postoffice address being in every case Pomona College, Claremont, California:

Requests for catalogs, bulletins and general information, also inquiries regarding Public Events and Lectures	-	-	SECRETARY OF THE FACULTY
Admission of Students	-	-	REGISTRAR
Business Affairs	-	-	CONTROLLER
Student Affairs	-	-	DEAN OF THE COLLEGE AND DEAN OF WOMEN
Applications for Faculty Appointments	-	-	CHAIRMAN OF THE FACULTY
Alumni Affairs	-	-	SECRETARY OF THE ALUMNI ASSOCIATION

POMONA COLLEGE BULLETIN

PUBLISHED BI-MONTHLY BY POMONA COLLEGE

Entered at the Postoffice, Claremont, Cal., as second-class matter.

Vol. XXXII

MARCH, 1930

No. 2

The issuance of the Annual Catalog has been advanced from November, 1929 to March, 1930.

PRESIDENT'S OFFICE
UNIVERSITY OF ILLINOIS

JUN 1 7 1930

Forty-third Year

Pomona College

ANNUAL CATALOG

REGISTER OF OFFICERS AND
TEACHERS FOR THE YEAR
1930 - 1931, REQUIREMENTS
FOR ADMISSION, DESCRIPTION
OF COURSES AND GENERAL
INFORMATION

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March, 1930

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1930

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COLLEGE CALENDAR

1930

September	15, <i>Monday</i>	} Registration Days
September	16, <i>Tuesday</i>	
September	17, <i>Wednesday</i>	
September	18, <i>Thursday</i>	
September	19, <i>Friday</i>	Opening Convocation, 9:00 a. m.
September	19, <i>Friday</i>	First Semester Classes <i>b e g i n</i> , 10:15 a. m.
October	14, <i>Tuesday</i>	Founders Day, Flame Ceremony, 10:30 a. m.
November	11, <i>Tuesday</i>	Special Armistice Day Musical and Military Ceremony, 10:30 a. m.
November	19, <i>Wednesday</i>	Convocation — World Affairs — 7:15 p. m.
November	26, <i>Wednesday</i>	Thanksgiving Recess begins, 6:00 p. m.
December	1, <i>Monday</i>	Thanksgiving Recess ends, 7:30 a. m.
December	17, <i>Wednesday</i>	Christmas Music, 7:15 p. m.
December	19, <i>Friday</i>	Christmas Recess begins, 6:00 p.m.

1931

January	5, <i>Monday</i>	Christmas Recess ends, 7:30 a. m.
January	16, <i>Friday</i>	Convocation — College Policy — 9:30 a. m.
January	31, <i>Saturday</i>	First Semester Ends
February	2, <i>Monday</i>	Registration Day for Underclass- men and Specials
February	3, <i>Tuesday</i>	Registration Day for Upperclass- men
February	4, <i>Wednesday</i>	Second Semester Classes begin, 7:30 a. m.
February	14, <i>Saturday</i>	Matriculation and Parents' Day Convocation, 10:30 a. m.
March	13, <i>Friday</i>	Convocation— <i>P o m o n a</i> in the World of Music—9:30 a. m.
April	10, <i>Friday</i>	Spring Recess begins, 6:00 p. m.
April	21, <i>Tuesday</i>	Spring Recess ends, 7:30 a. m.
April	21, <i>Tuesday</i>	Convocation, 10:30 a. m.
May	29, <i>Friday</i>	Memorial Convocation, 4:30 p. m.
June	15, <i>Monday</i>	Commencement

SUMMER VACATION

September	14, <i>Monday</i>	} Registration Days
September	15, <i>Tuesday</i>	
September	16, <i>Wednesday</i>	
September	18, <i>Friday</i>	Convocation 9:00 a. m.

CONTENTS

	PAGE
General Information	9
Buildings and Equipment	12
Library	15
Lecture Foundations	16
Music and Drama Course	16
Phi Beta Kappa Society	17
Board of Trustees	18
Faculty	19
Class Officers and Faculty Committees	28
Admission	29
General Requirements and Methods of Admission	29
Admission to Freshman Standing	29
Entrance Units	30
Admission as Special Students	31
Registration	32
Matriculation	32
Election of Courses	33
Method of Procedure in Honors Study	34
History	34
Administration	34
Requirements for Candidacy	34
Registration	34
Advisors	34
Credit	34
Graduation	34
Curriculum	34
Degree of Bachelor of Arts	34
Credit Requirements	34

	PAGE
General Requirements for Graduation	40
1. For the Lower Division	40
2. For the Upper Division	40
The Program of Studies	41
Division I - Fine Arts	43
Division II - English	44
Division III - Foreign Languages and Literatures	45
Division IV - Biological Sciences	46
Division V - Physical Sciences	47
Division VI - Social Sciences	48
Division VII - Philosophy, Psychology and Religion	49
A suggested Pre-Engineering Course	50
A suggested Pre-Medical Course	51
A suggested Course for Prospective Teachers	52
Courses of Instruction	53
Administration	93
Living Conditions	96
Tuition	99
Awards, Scholarships and Student Aid	101
Fellowships	106
Campus Organizations	112
Publications	113
Summary of Students	113
Index	
Appendix	

DIRECTORY OF OFFICERS OF ADMINISTRATION

CHARLES K. EDMUNDS, Ph.D., President. 209 Sumner Hall.

FRANK P. BRACKETT, Sc.D., Chairman of the Faculty.
209 Sumner Hall.

WILLIAM E. NICHOLL, M.A., Dean of the College.
9 Holmes Hall.

JESSIE E. GIBSON, M.A., Dean of Women. 112 Sumner Hall.

ERNEST E. JONES, B.A., Treasurer. 3 Holmes Hall.

GEORGE S. SUMNER, Ph.D., Controller. 3 Holmes Hall.

GEORGE S. BURGESS, J.D., Secretary of the Faculty.
101 Sumner Hall.

CHARLES T. FITTS, M.A., Registrar. 9 Holmes Hall.

WILLIS H. KERR, M.A., Librarian. 50 Library.

GERTRUDE PALMER CLEVERDON, B.A., Assistant to the President.
209 Sumner Hall.

MARY J. BURTON, B.A., Publicity Assistant. 212 Sumner Hall.

GENERAL INFORMATION

HISTORICAL SKETCH

Pomona College owes its inception to early settlers in Southern California whose previous affiliations led them to attempt the founding of a "Christian College of the New England type." Under the leadership of the Reverend Charles B. Sumner, a devoted and self-sacrificing group of fifteen were appointed members of the first Board of Trustees by the General Association of Congregational Churches of Southern California.

Besides the present President of the Board of Trustees, Mr. George W. Marston of San Diego, and the late Dr. Charles B. Sumner, who served as Secretary of the Board for thirty-eight years, the other original trustees were:

Mr. Henry Kirk White Bent of Pasadena
Mr. Nathan W. Blanchard of Santa Paula
Judge Anson Brunson of Los Angeles
Mr. Elwood Cooper of Santa Barbara
Rev. James T. Ford of San Bernardino
Rev. James H. Harwood, D.D. of San Diego
Rev. D. D. Hill of Pasadena
Rev. T. C. Hunt of Riverside
Rev. J. K. McLean, D.D. of Oakland
Mr. Henry A. Palmer of Oakland
Mr. Seth Richards of Boston, Mass.
Rev. Charles B. Sheldon of Pomona
Mr. Andrew J. Wells of Long Beach.

The College was incorporated October 14, 1887; and a site was selected about four miles north of the city of Pomona. But to meet the immediate needs a small private house was rented in Pomona, and in it the work of instruction was begun in September, 1888. In the following January an unfinished hotel in Claremont (now Sumner Hall), together with considerable land adjacent, was given to the College and the work was transferred to that

place. It was originally supposed that this location would be temporary. Later this plan was abandoned and Claremont made the permanent seat of the College. By this time, however, the name of "Pomona College" had become so definitely fixed that it has been retained notwithstanding the change of location.

The growth of the College has been swift and constant. The first class was graduated in 1894, at which time the total number of college students was forty-seven. For some time the work of the Preparatory School was of large importance, but later on it was discontinued owing to the increased growth and importance of the College. The maximum number which can now be received is 750 divided equally between men and women among the four classes, a limitation which compels the rejection of a large number of applications.

The imperative demand for expansion has led to the careful study of the ways in which the obvious advantages of the small college can be maintained while still making possible the gathering together of the equipment that is justified only in a large university. This study has resulted in the adoption of the general plan of affiliated colleges. To this end "Claremont College" was incorporated October 14, 1925, and the first of the new units known as Scripps College in honor of Miss Ellen Browne Scripps, whose generosity and vision made it possible, was opened in September, 1927, as an affiliated but separate college.

From the very beginning, Pomona College has been the center of sacrifice, affection and idealism. The College has been made possible by a great democracy of high-minded givers, and the character of these benefactors is reflected in the daily life and procedure of the College.

While the College was originally Congregational in organization it long ago made itself the servant of a wider fellowship. The Board of Trustees is a self-perpetuating body, absolutely free from ecclesiastical control and representing different communities, but pledged, nevertheless, under the College Charter to maintain the institution as truly Christian, though unsectarian.

The College is pre-eminently a company of workers. From the beginning it has maintained a reputation for interest in thorough scholarship rather than in large numbers. The procedures of the College are established in the purpose of appealing to students who appreciate the seriousness of the College opportunity. To this end, the standards of admission are unusually high. Not only is the number limited, but as defined elsewhere, only students who have finished their preparation with a high grade of promise are received. It is the distinct purpose to make the membership of the institution itself a scholastic honor.

It is the habit of the College to urge that scholarship should not only be high but also broad and inclusive. Pomona College is not a professional school. It insists that the best preparation for a profession includes not only the ample, generous and complete training of the college course, such as is here given, but also at a later date a thorough and definite professional specialization. The College has been singularly successful in permeating its body of students with these ambitions, and the success of its graduates is due in no small degree to the fact that nearly seventy per cent of all who have graduated have taken subsequent professional training.

The College recognizes the fact that social training is also an essential part of education. It is believed that the co-educational character of the College greatly increases the culture of the student body in this respect. Working together on the highest levels of learning, men and women are most likely to associate in mutual respect and dignity. It is practically the unanimous testimony of the graduates of this college that these relations add to the genuine wholeness and rounded worth of the student's life. While emphasizing social values and opportunities, the College, however, recognizes them as interests which must be held subordinate to the main business of study and work.

The proper determining purpose of the College is to help each student to secure for himself a correct correlation of the scientific

methods and the facts it discovers with the age-long spiritual aspirations and interpretations which constitute religion. In every field and in every scholastic exercise the student is encouraged to assimilate, digest and interpret for himself the facts observed or presented. The College does not ask its students to adopt any given set of religious interpretations of life but it does ask each student to seek an interpretation of his own guided by a critical study of those arrived at by others, past and present, as an indispensable part of his higher education. Hence, it welcomes an honest expression of opinion, putting faith in the power of truth to hold its own in the arena of open debate. It thus seeks to resource the coming generation with a leadership of intellectual capacity, directed will and Christian character.

BUILDINGS AND EQUIPMENT

In addition to the grounds and buildings administered by Claremont Colleges in behalf of both Pomona and Scripps Colleges Pomona College itself occupies about one hundred and twenty acres, of which sixty are included in Blanchard Park, about ten in Alumni Athletic Field, and fifty in the campus proper, centering in Marston Quadrangle.

There are nineteen buildings on the campus, heated from the central heating plant operated by Claremont Colleges.

The Mary L. Sumner Hall, named in memory of the wife of Rev. Charles B. Sumner, LL.D. one of the Founders of Pomona College, has been removed from its original site and remodeled for administrative and faculty uses.

Holmes Hall, a memorial of Cyrus W. Holmes, Jr., of Monson, Massachusetts, reconstructed in 1916 in conformity with more modern plans for buildings and campus, is devoted mainly to chapel, recitation rooms, the Business Office, and the offices of the Registrar and the Dean of the College.

The Library, the gift of Mr. Andrew Carnegie, is an imposing structure, well adapted to the purposes for which it was built.

The Albert K. Smiley Hall, the first dormitory for men, accommodates sixty-five students and one instructor. It is completely furnished with all modern conveniences.

The Eli P. Clark Campus for Men includes: The Dormitory for Freshmen, which provides superior quarters for some 105 students besides the House Master and one or more instructors; two additional dormitories accommodating some 165 upper classmen ready in September 1930; Frary Hall, the Dining Hall for Men, the gift of Mr. George W. Marston and others, named in memory of Rev. Lucien H. Frary, a member of the Board of Trustees from 1892 to 1903. Besides the Great Hall which will seat 450, there are three smaller dining rooms for the use of special groups as required.

Harwood Court, a modern and pleasing dormitory which includes Strong Hall, accommodates about one hundred and eighty women.

The College also owns several cottages, in which similar accommodations can be secured. These facilities have been made possible by generous gifts from friends of the College.

The Claremont Inn has, besides two large student dining-rooms, accommodations for eighty guests.

Rembrandt Hall, the first section of the Art Building, is devoted chiefly to the work of the Department of Art. The upper floor contains studio and work rooms; the lower floor a convenient auditorium of moderate size for exhibits and assemblies.

The Mabel Shaw Bridges Hall of Music, the gift of Mr. and Mrs. Appleton S. Bridges, of San Diego offers excellent facilities for the study of music.

The Open-Air Theater, built to take advantage of the natural setting of Blanchard Park, though uncompleted, has at present a seating capacity of over 4000.

The Gymnasium, comprising two structures, affords simple

equipment for indoor physical training supplementing the various playing fields for men and for women.

The Memorial Training Quarters stands as a remembrance of the Pomona College men who lost their lives in the Great War. It represents the gift of the parents of one of those men, Sheldon Gerry, '17, supplemented by those of alumni, students and friends. Alongside the Training Quarters is a modern standard size swimming pool for men.

Pearsons Hall of Science, the gift of Dr. D. K. Pearsons, contains the laboratories and lecture rooms of the departments of physics, psychology, mathematics and engineering.

The Frank P. Brackett Observatory, the gift of Mr. Llewellyn Bixby, '01, is designed to be of service to the student in the direct study of the stars.

The Harwood Hall of Botany, the gift of Mr. A. P. Harwood, contains lecture rooms and laboratories for the use of the Department of Botany.

The Mason Hall of Chemistry, the gift of Mr. W. S. Mason, provides ample facilities for the study of Chemistry.

The Crookshank Hall of Zoology, the gift of Mr. D. C. Crookshank, provides amply for the needs of the Department of Zoology.

The Marine Laboratory, located at Laguna Beach, has nine private rooms for special workers and two general laboratories, as well as storerooms, work rooms and aquarium room.

The Pomona College summer camp at Bluff Lake in the San Bernardino Mountains consists of five cabins, located on the tract of 120 acres given to Pomona College by Mr. J. S. Edwards. The camp, at an elevation of 7,500 feet, is in a region of great and unspoiled natural beauty.

The Medical Dispensary and the Infirmary operated by Claremont Colleges include the students of Pomona College in the service.

THE LIBRARY

The Library, of 70,041 books and 55,556 pamphlets, has been carefully selected, and is a working library of exceptional value.

The College possesses also the following library collections administered by the main library: The Cook-Baker Biological Library, the Parrish Botany Library, the James A. Lyman Memorial Library of Chemistry, the Astronomical Library, the New England Collection, the Geology Library, the Mason Library of California and Western American History, the Viola Minor Westergaard Art Collection, and the Carnegie Art Collection.

The main Library, the New England and the Mason California Libraries and the Westergaard and Carnegie Art Collections are housed in the Carnegie Library Building; the Cook-Baker Library and the Parrish Library in Crookshank Hall, the Astronomical Library in the F. P. Brackett Observatory, the James A. Lyman Memorial Library and the Geology Library in Mason Hall of Chemistry.

The Library is a depository for the publications of the Carnegie Institution of Washington, and for the United States Government documents. The Library has a large and well selected list of the most valuable research and general periodicals, including many complete files.

The library of Claremont Colleges, comprising 4100 volumes (including the George Burton Adams Library of English History and the Nollen Library of German Literature) is at present housed in the Carnegie Library building and is available to all students and instructors.

The library of Scripps College, at present about 4000 volumes, is housed in the library building on the Scripps campus, and its resources are available on application to the Pomona College Library authorities.

LECTURE FOUNDATIONS

THE JOSEPH H. JOHNSON FOUNDATION

The Joseph H. Johnson Foundation, liberally endowed by Miss Ellen B. Scripps, provides an annual income for the purpose of furnishing to the College for a protracted stay an intimate participation in college life notable educators from other institutions. By this means such educators are annually in residence in Pomona College. The opportunity of intimate contact with distinguished instructors thus afforded to undergraduates is a unique privilege, often surpassing the privileges of the classroom of the institution from which these educators come.

THE HENRY D. PORTER FOUNDATION

The Henry D. Porter Foundation, named in honor of the late Rev. Henry D. Porter, for many years a missionary in China, secures to the institution annually, the extended stay of some prominent worker in the field of Christian Missions. The lecturer upon this foundation commonly shares in the regular classroom work related to the history, geography, politics or religion of the region in which he has been actively at work. This vivid representation of the missionary life is one of the most stimulating features in the spiritual program of the College.

THE CLARK FOUNDATION

The Clark Foundation, established by Mr. Arthur O. Clark, makes it possible for the College to offer each year a lecture course of lectures in the general field of religion.

MUSIC AND DRAMA COURSE

In order to insure to the entire student body the opportunity of hearing and seeing the great artists of the day whose public appearance is usually confined to the larger cities, the College introduces each year a group of the most distinguished masters in the various departments of achievement. For the concerts and other entertainments thus afforded an annual ticket is furnished to every student.

THE PHI BETA KAPPA SOCIETY

The Pomona Chapter of Phi Beta Kappa is the Gamma of California.

Upperclassmen "who are of good moral character, who are candidates for the degree of Bachelor of Arts, and who are distinguished for breadth of culture and excellence of scholarship" are eligible to membership in the Phi Beta Kappa Society.

BOARD OF TRUSTEES

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Vice-President
Vice-President
Secretary and Treasurer
President of the College
Controller

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Upland
Pasadena

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Claremont

Term of Office Expires June, 1932

ARTHUR S. BENT
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Los Angeles
Hollywood
Pasadena
Los Angeles
Los Angeles
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Term of Office Expires June, 1933

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 WILLIAM S. MASON
 DELL A. SCHWEITZER
 JOSIAH SIBLEY, D.D.

Los Angeles
Pomona
Claremont
Evanston, Ill.
Los Angeles
Pasadena

Term of Office Expires June, 1934

LUTHER FREEMAN, D.D.
 EDWARD C. HARWOOD
 FRANK H. HARWOOD
 MARY MCLEAN OLNEY
 W. R. H. WELDON
 FRED M. WILCOX

Pomona
Pasadena
San Dimas
Berkeley
South Pasadena
Lamanda Park

FACULTY

HARLES KEYSER EDMUNDS 345 College Ave.

President, 1928

B.A., Johns Hopkins University; Ph.D., Johns Hopkins University.

YRUS GRANDISON BALDWIN Palo Alto

President Emeritus, 1890.

B.A., Oberlin College; M.A., Oberlin College. Student, Andover Theological Seminary; D.D., Oberlin College.

EDWIN CLARENCE NORTON 145 W. Seventh St.

Dean of the Faculty and Professor of the Greek Language and Literature on the Edwin Clarence Norton Foundation, Emeritus, 1888.

B.A., Amherst College; M.A., Amherst College and Yale University; Ph.D., Carleton College; D.D., Pacific Theological Seminary. Graduate Student, Johns Hopkins, Columbia and Oxford Universities.

FRANK PARKHURST BRACKETT 270 E. Third St.

Chairman of the Faculty, Professor of Astronomy on the Frank Parkhurst Brackett Foundation and Director of the Observatory, 1888.

B.A., Dartmouth College; M.A., Dartmouth College; Sc.D., Dartmouth College. Honorary Fellow, Clark University.

HEBE ESTELLE SPALDING 261 W. Fifth St.

Professor of English Literature on the Phebe Estelle Spalding Foundation, Emeritus, 1889.

B.L., Carleton College; M.L., Carleton College; Ph.D., Boston University.

GEORGE GALE HITCHCOCK 721 College Ave.

Professor of Physics, 1892.

B.A., University of Nebraska. Graduate Student, Johns Hopkins and Cornell Universities.

MACE ELLA BERRY 353 W. Eleventh St.

Associate Professor of Mathematics, 1909.

Dean of Women, 1909-1927.

B.S., Mount Holyoke College; M.A., Mount Holyoke College.

ELTON ERASTUS CHURCHILL 507 Yale Ave.

Secretary of the Faculty and Associate Professor of German, Emeritus.

B.A., Knox College; M.A., Knox College; Litt.D., Knox College; B.D., Yale University. Graduate Student, University of Leipzig.

Arranged in order of appointment to present rank. The date in each line denotes the beginning of original term of service.

MENDAL GARBUTT FRAMPTON¹ 927 Harvard Ave.

Professor of the English Language, 1904.

B.A., Illinois College; M.A., Illinois College; M.A., Harvard University. Graduate Student, Harvard and Chicago Universities.

CHARLES GRACCHUS NEELY 739 College Ave.

Professor of Constitutional History and Law on the Danie.

Herbert Colcord Foundation, Emeritus, 1911.

B.L., University of Illinois.

WILLIAM ATWOOD HILTON 1293 Dartmouth Ave.

Professor of Zoology on the Willard George Halstead Foundation, 1905.

B.S., Cornell University; Ph.D., Cornell University.

ROBERT DAY WILLIAMS Mills Ave. N. of Mesa Ave.

Professor of Experimental Psychology, 1909.

B.S., Pomona College; M.A., Yale University; Ph.D., Yale University. Graduate Student, University of California.

BERNARD CAPEN EWER 706 Indian Hill Blk.

Professor of Psychology, 1916.

B.A., Brown University; M.A., Brown University; Ph.D., Harvard University.

RALPH HAINE LYMAN 357 W. Tenth St.

Professor of Applied Music, Head of Department of Music, 1917.

B.A., Grinnell College. Student in voice with Karleton Hackt, William B. Olds, Grant Hadley, Arthur Middleton, Courtland Cooper, Holmes Cowper and other American masters and with Vittorino Moratti in Berlin.

MARO BEATH JONES 125 W. Eleventh St.

Professor of Romanic Languages, 1911.

B.A., Boston University; M.A., Boston University. Graduate Student, Universities of Chicago, Geneva and Barcelona. Student, Estudis Universitaris Catalans, Barcelona.

WILLIAM EVAN NICHOLL 465 W. Sixth St.

Dean of the College and Assistant Professor of Education, 1919.

B.A., Bellevue College; M.A., Columbia University. Graduate Student, Edinburgh University.

HOMER ELMER ROBBINS¹ 487 Harrison Ave.

Professor of Classical History and Language, 1915.

B.A., University of Michigan; M.A., University of Michigan; Ph.D., University of Michigan. Graduate Student and holder of University and Buhl Classical Fellowships, University of Michigan.

¹Absent on leave, first semester, 1930-1931.

- ROBERT CHARLES DENISON** 232 W. Fifth St.
Professor of Philosophy, 1920.
 B.A., Amherst College; B.D., Andover Theological Seminary;
 D.D., Amherst College.
- LAYMOND CUMMINGS BROOKS** 489 W. Sixth St.
Professor of Religion on the Nancy M. Lyon Foundation,
1921.
 B.A., Tabor College; B.D., Yale Divinity School; D.D., Tabor
 College and Whitman College. Graduate Student, Oberlin College.
- RUCE McCULLEY** 821 Dartmouth Ave.
Professor of English Literature, 1921.
 B.A., Hiram College; M.A., University of Chicago; Ph.D., Harvard
 University.
- WILLIAM KIRK** 705 Indian Hill Blvd.
Professor of Social Economics on the Henry Snyder Foun-
duction, 1922.
 B.A., Johns Hopkins University; Ph.D., Johns Hopkins University.
- WILLIAM POLK RUSSELL** 506 E. Sixth St.
Professor of Mathematics on the Joseph W. Fiske Foun-
duction, 1904.
 B.A., Cumberland University; M.A., Cumberland University.
 Graduate Student, Columbia, Harvard and Yale Universities.
- GEORGE SAMUEL BURGESS** 154 E. Tenth St.
Professor of Law and Secretary of the Faculty, 1918.
 B.A., University of Michigan; J.D., University of Michigan.
- GENE WHITE NIXON** 1034 Harvard Ave.
Professor of Physical Education for Men, 1916.
 B.A., Monmouth College. Graduate Student, Illinois, California
 and Columbia Universities.
- HANK WESLEY PITMAN¹** 116 E. Twelfth St.
Professor of History, 1924.
 Ph.B., Yale University; M.A., Yale University; Ph.D., Yale
 University.
- LAND R. TILESTON** 1129 Dartmouth Ave.
Professor of Physics, 1925.
 B.A., Dartmouth College; M.A., Dartmouth College; D.Sc.,
 Colorado College.
- SSELL McCULLOCH STORY** 127 W. Eighth St.
Professor of Political Science, 1925.
 B.A., Monmouth College; M.A., Harvard University; Ph.D.,
 Harvard University.
- ¹ Absent on leave, 1930-1931.

CHARLES TABOR FITTS

826 Harvard Ave

Registrar and Assistant Professor of English, 1919.
B.A., Amherst College; M.A., University of California. Graduat
Student, Harvard University.

WILLIS HOLMES KERR

470 W. Seventh St

Librarian, 1925.
B.A., Bellevue College; M.A., Columbia University. Graduat
Student, Edinburgh University.

PHILIP ALEXANDER MUNZ

1165 Indian Hill Blvd

*Professor of Botany on the Henry Kirke White Bent
Foundation, 1917.*
B.A., University of Denver; M.A., University of Denver; Ph.D.
Cornell University. Graduate Student, University of Chicago.

KENNETH DUNCAN

1120 Harvard Ave

*Professor of Economics on the Stedman-Sumner Founda-
tion, 1926.*
B.A., Wabash College; M.A., University of Wisconsin; Ph.D.
University of Michigan.

ALFRED OSWALD WOODFORD

443 W. Tenth S

Professor of Geology, 1915.
B.A., Pomona College; Ph.D., University of California.

JESSIE EDITH GIBSON

246 Dartmouth Av

*Dean of Women on the Martha N. Hathaway Foundation,
1927.*
B.A., University of Idaho; M.A., University of Washingto
Graduate Student, California and Columbia Universities.

CHARLES JUDSON ROBINSON

809 Indian Hill Blv

Professor of Chemistry, 1927.
B.S., Illinois Wesleyan University; Ph.D., Johns Hopk
University.

EDWARD TAYLOR

1022 Harvard Av

Professor of Engineering Mathematics, 1920.
C.E., University of Minnesota; M.A., University of Southe
California. Graduate Student, University of Oregon.

EDWARD MCCHESENEY SAIT

238 E. Seventh S

Professor of Political Science, 1928.
B.A., Toronto University; M.A., Toronto University; Ph.
Columbia University.

D'ALARY FECHET

Professor of Military Science and Tactics, 1930.
Major, Infantry, U. S. Army. Graduate U. S. Military Academ
Student at Army War College.

- WALTER ALFRED ALLEN** 256 E. Second St.
Associate Professor of Musical Theory and Appreciation, and Instructor in Organ, 1912.
 B.A., Beloit College; B.Mus., Yale University. Associate, American Guild of Organists.
- EVERETT SAMUEL OLIVE¹** 136 W. Seventh St.
Associate Professor of Piano, 1923.
 B.Mus., Simpson College. Graduate Student, Simpson College. Pupil of Moritz Mayer-Mahr and Mme. Teresa Carreno in Berlin.
- ELLIOTT CURTIS LINCOLN²** 472 W. Tenth St.
Associate Professor of English Literature, 1924.
 B.A., Colby College; M.A., State College of Washington and Harvard University.
- BENJAMIN DAVID SCOTT** 828 College Ave.
Associate Professor of Public Address, 1923.
 B.A., University of Southern California; S.T.B., Boston University; Ph.D., Boston University. Graduate work, Boston, Brown and Harvard Universities.
- JOSEPH WADDELL CLOKEY** Via Los Altos
Associate Professor of Organ, 1926.
 B.A., Miami University. Graduate, Cincinnati Conservatory of Music.
- DIETRICH NEUFELD** La Verne
Associate Professor of German, 1928.
 Ph.D., University of Jena.
- ELIZABETH KELLEY** 860 Dartmouth Ave.
Associate Professor of Physical Education for Women, 1928.
 B.A., University of Wisconsin; M.A., New York University.
- VALTER TICKNOR WHITNEY** 445 W. Tenth St.
Associate Professor of Astronomy, 1929.
 B.S., M.S., Pomona College; Ph.D., University of Chicago.
- AMES W. CROWELL** 706 Indian Hill Blvd.
Associate Professor of Spanish, 1929.
 B.S., Haverford College; M.A., Haverford College; Ph.D., Cornell University.
- STEWART BURGESS**
Associate Professor of Sociology, 1930.
 B.A., Princeton University; Ph.D., Columbia University.
- ¹absent on leave, first semester, 1930-1931.
²absent on leave, second semester, 1930-1931.

MARY BROOKS EYRE

1134 College Av

Associate Professor of Psychology, 1924.

B.A., Stanford University; M.A., Stanford University.

ROBERT TRESILIAN BELCHER

452 W. Sixth S

Assistant Professor of Mathematics and Engineering, Emeritus, 1907.

B.A., Queen's University. Graduate Student, Queen's College and University of California.

CLIFFORD NOTT HAND

1045 Yale Av

Assistant Professor of Religion and Editor of College Magazine, 1919.

B.L., Pomona College; B.D., Pacific School of Religion; M.A., University of Southern California. Graduate Student, University of California.

ARTHUR BABCOCK

1133 Yale Av

Assistant Professor of Singing, 1921.

Graduate of the New England Conservatory of Music. Member faculty of the New England Conservatory of Music. Pupil of Sbriglia, in Paris.

RALPH RAYMOND UNIACKE

160 W. Eleventh S

Assistant Professor of Violin, 1923.

Pupil of Franz Milcke.

REGINALD R. BACON

480 Alexander Av

Assistant Professor of Military Science and Tactics, 1927

B.S., Agricultural College of Utah. Captain, U. S. Army.

WILLIAM HENRY COOKE

226 W. Eighth S

Assistant Professor of History, 1927.

B.A., Pomona College; M.A., Pomona College; Ph.D., Stanford University.

ROGER WILLIAMS TRUESDAIL

430 W. Sixth S

Assistant Professor of Chemistry, 1927.

B.A., University of Redlands; M.S., University of Oregon; Ph.D., University of Washington.

FRANCIS GARRITT GILCHRIST

346 Harvard Av

Assistant Professor of Zoology, 1924.

B.A., University of California; Ph.D., University of California.

COLVIN HEATH

270 W. Twelfth S

Assistant Professor of Physical Education for Men, 1922

B.A., Pomona College. Graduate Student, Pomona College.

ROBERT LOBINGIER STREHLE

1019 Dartmouth Av

Assistant Professor of Physical Education for Men, 1923

B.A., Pomona College. Graduate Student, Pomona College.

- FRANCIS RAYMOND IREDELL** 120 E. Eleventh St.
Assistant Professor of Philosophy, 1925.
 B.A., Pomona College; M.A., Harvard University.
- MARY D. BIGELOW** Miramar and Mills Aves.
Assistant Professor of Physical Education for Women, 1925.
 Graduate, Department of Hygiene, Wellesley College.
- ROSA FRIEDA BISSIRI** 1035 Harvard Ave.
Assistant Professor of French, 1920.
 B.A., Kreuzlingen College, Switzerland.
- THOMAS MONTAGUE BEGGS** 424 W. Tenth St.
Assistant Professor of Art, 1926.
 B.F.A., Yale University. Graduate, General Art Course at Pratt Institute.
- EDITH PIERPONT STICKNEY** Claremont Inn
Assistant Professor of History, 1930.
 B.A., Vassar College; M.A., University of Southern California; Ph.D., Stanford University.
- MARION JEANETTE EWING** 487 W. Sixth St.
Assistant Librarian, 1912.
 B.A., Olivet College; B.S., Simmons College; M.A., Boston University.
- MARGARET HUSSON** 236 College Ave.
Instructor in Spanish, 1925.
 B.A., University of Kansas; M.A., Columbia University.
- CHARL JAY MERRITT** Eli P. Clark Hall
Instructor in Physical Education, and Freshman Class Adviser, 1925.
 B.A., Pomona College.
- CHAROLD DAVIS** 248 W. Twelfth St.
Instructor in English, 1927.
 B.A., Stanford University; B.A. and B.Litt., Oxford University.
- JOSE JOSEPH COLEMAN** 870 N. Towne Ave., Pomona
Instructor in Public School Music, 1927.
 B.Mus., Chicago University. Pupil of Percy Rector Stephens and DeWitt Durgin Lash.
- EMMA LORD HARRIS** Smiley Hall
Instructor in English, 1927.
 B.A., Colgate University. Graduate student, Rochester Theological Seminary, Universities of Rochester, Redlands and Southern California.

HATTIE C. McCONNAUGHEY

260 E. Seventh S

Library Cataloger, 1924.

B.A., Hillsdale College; B.Pd., Hillsdale College. Graduate Student

NORMAN THEODORE NESS

355 Harvard Av

Instructor in Economics, 1928.

University of Michigan and Pomona College.

B.A., Carleton College; M.A., University of California.

EMILIE ELIZABETH WAGNER

1035 Harvard Av

Instructor in German, 1928.

B.A., Smith College; M.A., Pennsylvania State College. Graduate Student, Columbia University, Middlebury College, Sorbonne Universite de Paris.

MARY C. LOVE

466 W. Sixth S

Head of Library Loan Department, 1929.

B.A., M.A., Stanford University.

FREDERICK TIPPING

Instructor in Piano, 1929.

Associate of London College of Music.

ELSA HAURY

430 Harrison S

Instructor in Voice, 1929.

B.A., Salem College. Pupil of Clifford Lott, George Fergusson, Carl Eppert, Richard Hageman, and Louis Graveure.

THEODORE G. KENNARD

218 W. Twelfth S

Instructor in Chemistry, 1929.

B.A., Pomona College; Ph.D., Cornell University.

GORDON WILSON¹

115 E. Tenth S

Instructor in Classical Language and Literature, 1930.

B.A., Pomona College. Graduate Student, Claremont Colleges.

MILTON GARDNER

Instructor in Physics, 1930.

B.A., Pomona College. Graduate Student, Pomona College. Associate, Langley Field and Bureau of Standards.

LEON HOWARD

Instructor in English, 1930.

B.A., Birmingham-Southern College; M.A., University of Chicago; Ph.D., Johns Hopkins University.

CURTIS HAUPT

Instructor in Physics, 1930.

B.A., Colorado College; M.A., University of California. Graduate Student, University of California.

¹First semester, 1930-31.

VIRGINIA PRINCEHOUSE

146 E. Seventh St.

*Instructor in Dramatics, 1930.*B.A., Pomona College; Graduate Student, School of Dramatics
Yale University. Graduate Student, Claremont Colleges.

DEPARTMENTAL LECTURERS

AUBREY AUGUSTUS DOUGLASS

275 W. Tenth St.

*Lecturer in Education, 1926.**Professor of Education, Claremont Colleges.*B.A., Kansas State Teachers College; M.A., Ph.D., Clark
University.

HORACE JEREMIAH VOORHIS

San Dimas

Lecturer in History, 1929.

B.A., Yale University; M.A., Claremont Colleges.

ASSISTANTS

DOROTHY HOLVERSON

Assistant in English.

B.A., Pomona College. Graduate Student, Claremont Colleges.

MORDON WILSON¹*Assistant in Classical History and Language.*

B.A., Pomona College.

ELIZABETH CROW

Graduate Assistant in Botany.

B.A., Pomona College.

MUCILE EDWARDS

Graduate Assistant in English.

HELEN GREEN

Graduate Assistant in Zoology.

B.A., Pomona College.

second semester, 1930-1931.

CLASS OFFICERS AND FACULTY COMMITTEES

1930 - 1931

CLASS OFFICERS

GENERAL—Nicholl

SENIOR—Denison, Williams

JUNIOR—Kirk, Lincoln

SOPHOMORE—Iredell, Woodford

FRESHMAN—Nicholl, Gibson, Merritt

COMMITTEES

ADMINISTRATION—Tileston, Lyman, Story, Nixon, Munz.

ADMISSION—Fitts, Nicholl, Gibson, Williams.

ATHLETIC COUNCIL—Nixon, Strehle, Russell, Nicholl and three student representatives.

ATHLETIC CONFERENCE—Russell, Nicholl, Nixon.

CLASSIFICATION—Fitts, Williams, Berry, Whitney.

COLLEGE LIFE—Nicholl, Gibson, Duncan, Merritt.

President and Vice-President Associated Students,
ex-officio consulting members on call.

CONVOCATION—Brackett, Nicholl, G. S. Burgess, Lyman, Scott.

COURSES OF STUDY—McCulley, G. S. Burgess, Iredell, Tileston, Fitts.

ENGLISH—Davis, Duncan, Iredell, Robinson.

HEALTH—Ilsley, Nixon, Kelley, Nicholl, Gibson, Eyre, Gilchrist.

HONORS—Woodford, Robinson, Nixon, Story, Crowell, Cooke.

LECTURES, PUBLIC EVENTS AND COMMENCEMENT—G. S. Burgess,
Nicholl, Lyman, Davis, Howard.

LIBRARY—Duncan, Kerr, Ewing, Lincoln, Hilton, G. S. Burgess.

PUBLICATIONS—Hand, G. S. Burgess, Lincoln, Harris, Cleverdon,
Maple, Burton, Glen Turner.

RELIGIOUS INTERESTS INCLUDING CHAPEL—Brooks, Nicholl, Lyman.

ROOMS—G. S. Burgess, Story, Hilton.

SCHOLARSHIPS—Story, Iredell, Gibson, Nicholl, Robinson.

STUDENT AID—Hand, Nicholl, Gibson, Cooke, Merritt.

ADMISSION

GENERAL REQUIREMENTS AND METHODS OF ADMISSION

It is the purpose of Pomona College to do a distinctly high grade of work, thus preparing its graduates for special achievement whatever later callings they may choose. To this end candidates for admission to any class must present satisfactory evidence of their fitness for college, both in character and in scholarship. Testimonials of character and a letter of honorable dismissal from the last institution attended are required.

It is further advised that application be made as early as possible, inasmuch as the College cannot under present conditions guarantee the admission of more than two hundred to the freshman class, the trustees having limited the total attendance to seven hundred and fifty.

The College welcomes tentative application from prospective freshmen several years in advance and is glad to offer suggestions from time to time regarding the best preparation for admission. In this respect the good offices of the College are freely at the service of all interested inquirers. Formal applications should be accompanied by a fee of two dollars and fifty cents. A medical examination conducted by an authorized physician, under the direction of the College, is required of all students.

An applicant for admission, immediately upon receipt of notification of acceptance, is required to make a deposit of twenty-five dollars on the tuition of the first semester.

ADMISSION TO FRESHMAN STANDING

Applicants are admitted to freshman standing in any one of the following ways, as follows:

First: Examination by the College.

Second: Certificate of the College Entrance Examination Board.

Examinations are given by the College Entrance Examination Board at certain times and places, which may be learned from the Registrar or from principals of secondary schools.

Third: Certificate from approved schools or colleges.

Students from approved schools or colleges are admitted without examination on presentation of a certificate signed by the principal or proper official and showing in detail the requisite complete courses. Certificate blanks obtained from the principal should be filled out and returned as early as possible after the completion of the high school year.

ENTRANCE UNITS

Fifteen units of recommended work is the normal requirement for admission. In rare cases an applicant offering twelve recommended units, supplemented by special recommendations of principals and references and by scholastic aptitude tests of a quality indicative of ability to do college work with success, may be accepted.

A "unit" represents a course of study in one subject of high school grade involving five forty-five minute recitations per week or an equivalent for a school year. Laboratory periods should be at least twice the length of recitation periods.

Not less than one unit in any subject is normally accepted, though a half unit may be accepted when accompanied by units for courses in allied subjects.

ENTRANCE SUBJECT REQUIRED

English, 3 units

ENTRANCE SUBJECTS RECOMMENDED

Although English is the only subject specifically required, applicants will find it to their advantage to present the following as part of the fifteen units required: at least 2 units of one foreign language; 1 unit each of history, algebra, geometry, and laboratory science; and 3 or more units of electives from the following subjects: English, foreign language, history, mathematics, and laboratory science.

For advanced work in most fields, a reading knowledge of

at least one modern foreign language is necessary, usually French or German. In some fields, a command of both is desirable. It is very much to the advantage of the student to acquire this reading knowledge before entering college. Students who are planning to do advanced work in the Physical Sciences or in Mathematics, will do well to take both Trigonometry and Solid Geometry in High School if possible.

Those are matriculated to full standing who at the end of a semester's residence meet the requirements (*see* Matriculation); those who do not meet the requirements are not allowed to matriculate and are enrolled as in partial standing. No student in partial standing is recommended to college standing in another institution. The final acceptance of entrance units is based upon the character of the work done in class at Pomona College as well as upon the grade of the units presented.

Students who have sufficient credit from other institutions are admitted to advanced standing on credentials signed by the proper officials and giving full specifications concerning the nature of the courses taken and the time spent in each, together with their rank in each subject. They are assigned hours and credits on the basis of their credentials, but such assignment is provisional until ratified by the Classification Committee. This ratification is not given until after the required semester's residence, at which time the Committee has power to act in adjusting hours or credits, or both, to the qualifications shown.

ADMISSION AS SPECIAL STUDENTS

Mature students, ordinarily only such as are at least twenty-one years of age, may be admitted as special students to courses for which, by ability and preparation, they may be fitted. This provision applies particularly to those equipped for advanced studies in special departments. The privilege of classification as special students is not open to those who seek admission to College in this way as a means of avoiding compliance with the entrance or col-

legiate requirements laid down for regular students. Special students are not candidates for a degree.

Credit, varying in amount with the individual courses, is granted for graduate work in approved High Schools.

REGISTRATION

All students are required to register on one of the regular announced days of registration preceding the opening of the class work of each semester. A fee of two dollars is charged for late registration and a payment of one dollar for any change in the list of subjects chosen. This latter payment is remitted in the case of new students registering for the first time, provided the changes are made within a week of the opening day of the registration period.

Students are admitted to those courses only for which they are formally registered.

Students are not received later than the last day set for change of schedule.

MATRICULATION

Matriculation implies the meeting of all entrance requirements and the proven ability to carry college work. To this end the standing of all new students is provisional until after they have been in residence for one semester. At that time those are matriculated who have shown themselves in accord with the spirit of the College, who have done a satisfactory quality of work during the semester of residence and whose entrance units are acceptable.

Quality of work satisfactory for matriculation has been defined by the Faculty, thus:

"Matriculants must have carried the work of their first semester of residence without incurring any FF grades, and they must, if Freshmen, have earned at least 12 credits, and if Sophomores or upper classmen, at least as many credits as the number of hours for which they were registered. Students in any class carrying less than 12 hours must have made as many credits as the hours for which they were registered."

Students failing to matriculate at the end of the first semester of

idence may be matriculated only after they have met all the requirements for two semesters.

Students are not candidates for a degree nor are they eligible for recommendation to college standing in another institution until they have matriculated. All students must be matriculated before gaining to Junior standing.

ELECTION OF COURSES

On or before the first Saturday in January after the Christmas recess, and the first Saturday in June, all resident students must submit a schedule listing their choice of subjects for the following semester.

Changes from this schedule may be made upon the payment of a fee of one dollar. Failure to prepare such a schedule at the appointed time subjects the student to a fee of two dollars. Students may not elect less than twelve hours of work without the special permission of the Classification Committee.

The College is equipped to offer unusual privileges in Theoretical and Applied Music. The influence of the College is greatly enriched by the contributions made through these departments to the cultural life of the institution as a whole. In Bridges Hall the great artists of the world are heard through the concerts and entertainments of the *Music and Drama Course*, to which all students have free admission. Great enlargement of life comes through intimate acquaintance with these arts, both in theoretical and applied forms, and the College urges all regular students to undertake at least some work in the fine arts, credit toward the B.A. degree being granted on conditions specified under the detailed description of the courses.

METHOD OF PROCEDURE IN HONORS STUDY

HISTORY

Prior to the academic year 1924-1925 Pomona College awarded honors at graduation on the basis of weighted grades. In the fall of 1924 a program of Reading for Honors in approved departments was added for a few students with special aptitudes, the work of such students culminating in final comprehensive examinations. Beginning with the academic year 1927-1928, honors based on grades alone ceased to be given, and special arrangement of courses and other directed study was substituted, leading to the degree with honors. Beginning with September 1930 the rules and regulations set forth in this manual replace all previous procedure with respect to candidacy for the degree with honors.

ADMINISTRATION

The administration of the routine involved in attaining the degree of Bachelor of Arts with honors is vested in a standing committee of the faculty known as the Committee on Honors. This Committee alone has power to certify to the registrar candidates for the degree with honors.

REQUIREMENTS FOR CANDIDACY

It is expected of a candidate for the degree with honors: (a) that he exercise initiative in his academic work; (b) that he be a scholar and curricular activities consistently first among his interests; (c) that he maintain a high standard of scholarship in the division of the curriculum in which lies his field of concentration, maintaining at the same time a satisfactory record in his other work; (d) that during vacations he pursue programs of reading and study; and (e) that he seek to attain a broad and thorough understanding of his field of concentration. Candidacy for the degree with honors may be continued only so long as the candidate maintains a quality of work and an attitude toward his study which as will justify recommendation for the degree with honors at graduation.

REGISTRATION

A candidate for the degree with honors is expected to concentrate under the sponsorship or supervision of some department or division. Not every candidate, however, begins concentration at the same period of candidacy. Three stages in candidacy are possible: (a) registration without concentration, normally during sophomore year, under the supervision of the Committee; (b) registration with concentration under the sponsorship of a department or division, or, in case of a special program, of the Committee; and (c) registration for the degree with distinction under the supervision of a department. All registrations are subject to the approval of the Committee.

A candidate for the degree with honors should seek the sponsorship of some department or division or of the Committee at the time of entering upon his candidacy and must have such sponsorship at the time of entering upon a field of concentration. He should choose a field of concentration before or during his Junior year and must choose it by the beginning of Senior year.

A student registered for the degree with honors may withdraw from candidacy on favorable action by the Committee, and the Committee itself may withdraw a student from candidacy, but in Senior year the status of a candidate may be changed only by action of the faculty. If, for any reason, a candidate leaves the honors status, the Committee, in consultation with the department or division concerned, certifies to the Registrar the credit to which the student is entitled for the work done under its supervision.

A lower division student registering for the degree with honors without the sponsorship of a department or division must accompany his registration with a tentative general plan of future study. As soon as a student decides to concentrate in a department or division, or under the supervision of the Committee, he must file with the Committee a plan of study approved by the sponsor.

A candidate for the degree with honors may graduate on the

basis of a registration of 12 curricular hours per semester.* Sor departments insist upon this basis of registration; others, for many of their candidates, advise the full fifteen curricular hours. A candidate in the upper division who has been accepted in some field of concentration may register for a minimum of 9 curricular hours with the approval of the department or the division concerned and of the Committee.

In Senior year a candidate for the degree with honors who seeks also the degree with distinction in a specific field may register for less than 9 curricular hours in view of special aptitudes. A thesis or its equivalent is required of such a student.

ADVISERS

Each candidate for the degree with honors at the time of registration in a field of concentration is assigned an adviser recommended by the sponsor, and accepted by the Committee. Although a candidate proceeds on his own initiative he confers regularly with his adviser concerning all his work and particularly that not covered by formal courses in the College. The adviser is expected to keep himself informed as to the progress of the candidate, and to advise the Committee promptly of changes in the candidate's plan of study if they are important. The candidate's registration card each semester must bear the adviser's signature.

EXAMINATIONS

Prior to his Senior year each candidate for the degree with honors takes final examinations in courses outside of the department of his concentration; in Senior year such examinations may be omitted at the option of the instructor. From final course examinations in the department of his concentration he may be exempted at the discretion of the department concerned.

A candidate for the degree with honors may concentrate fully under sponsorship which provides comprehensive examinations.

*Exclusive of military drill, choir and required courses in physical education.

during Senior year. The date of these examinations is determined by the sponsoring body which also sets the questions and conducts the examination, under the general supervision of the Committee on Honors. It is proposed through these examinations to take the measure of each candidate's abilities and to determine the quality and range of his scholarship and his insight as they are revealed by his grasp of the field of concentration. A copy of the paper set for each final comprehensive examination is filed with the Committee on Honors that it may review the paper and advise the examiners as to its adequacy in relation to the honors program.

A candidate for the degree with honors who seeks departmental distinction takes in addition to the above comprehensives an oral examination conducted by a committee of at least three, one of whom is the candidate's adviser. The other members are appointed by the Committee in consultation with the department concerned, and one of the examiners is usually from some other institution. The purpose of this examination is to supplement the examinations previously taken, and it is therefore expected to cover the entire scope of the candidate's field of concentration.

CREDIT

At the end of a candidate's Senior year the Committee, after consultation with the department or division concerned, certifies to the Registrar the credit to which the candidate is entitled for work done under its supervision.

GRADUATION

In the case of a candidate who qualifies for the degree with honors the Committee certifies to the Registrar the particular honor, *cum laude*, *magna cum laude* or *summa cum laude*, to be conferred upon him. In the case of a candidate who qualifies also for the degree with distinction the Committee, on the recommendation of the department concerned, certifies to the Registrar the honor "With distinction in _____" (i.e. subject). This recognition is announced upon the Commencement program and recorded upon the candidate's diploma.

CURRICULUM

DEGREE OF BACHELOR OF ARTS

The courses of study offered lead to the degree of Bachelor of Arts under the following hour and credit requirements:

HOOR REQUIREMENTS

One hundred and twenty-six hours of work are required for graduation. An "hour" consists of one recitation or lecture period or one laboratory period a week for one semester. A recitation or lecture period covers fifty minutes; a laboratory period covers, in general, the time of three such periods. In order to complete the course in four years one must take an average of fifteen hours of academic work per semester throughout the four years.

CREDIT REQUIREMENTS

In order to graduate a student must not only earn a certain number of hours, but also attain an average of at least C grade in those hours. To this end a certain number of credits is ascribed to each grade as a basis of determining average grade. The scale is so adjusted that the number of credits required for graduation coincides with the number of hours.

GRADES AND CREDITS

1. Grades, credits and marks are as follows:

<i>Grades and Marks</i>	<i>Credits per Semester Hour</i>
A	2 (excellent)
B	1½ (very good)
C	1 (good)
D	½ (passing)
F	0 (failure)
FF	0 (failure)
I (Incomplete)	
W (Withdrawn with permission while work was in progress)	

2. The F grade and the FF grade both indicate a failure. In the case of the F grade the failure incurred may be made up outside of class upon conditions laid down by the teacher, provided the conditions are met on or before the first day after the Spring vacation, if the failure is incurred in the first semester,* or on or before the first day of recitation of the next College year, if incurred in the second semester. An F grade made up thus may not be raised.

*F or I grades incurred during the first semester of year courses may be removed on the recommendation of the teacher concerned, by the successful completion of the work of the final semester.

above a D grade. An F grade not so made up remains permanently upon the records as a failure. A FF grade can be made up only by taking the work over in class. Where the FF or permanent is incurred in required work, that work must be repeated when next offered. A student may not continue with work in which he has received a FF. The making up of work which has received the F or FF grade does not expunge the grade from the record. It does not permit credit and "credits" for the course.

All F and FF grades reported by teachers are accompanied with specific statement in writing of the cause for the failure and a detailed statement in case of the F grade of the work necessary for removal. A copy of this statement is mailed to students.

3. The I mark is given where illness on the part of a student justifies the granting to him of additional time for the completion of his work. It may be changed upon the same conditions as those laid down for the making up of the F grade, with this exception, that other than a D grade may be thus earned.* In general, however, the grade will be lower than it would have been had the work been done within the regular time limits. Teachers wishing to give an I grade for other justifiable cause than illness must first receive permission to do so from the Classification Committee.

4. The mark W is used where a student has withdrawn from a course with the permission of the Registrar's office, provided, however, that the student was not reported as below D in the subject in the scholarship report preceding his withdrawal. If the student was reported, the grade of the report is entered upon the records and is subject to the conditions stated for F and FF grades. Withdrawal from any course within a month of the examination period is not permitted save by special action of the Classification Committee, and even with that permission involves a failure in the course.

CHOICE OF SUBJECTS

In the selection of his work the student is given a large range. The only limitations are such as will insure to him, on the one hand, the breadth of view which may be gained by an introductory study of each of the great realms of knowledge; and, on the other, that concentration along some chosen line of work which shall develop power of thought and an actual fund of knowledge in some particular field. To this end the following general requirements for graduation have been approved.

GENERAL REQUIREMENTS FOR GRADUATION

I. FOR THE LOWER DIVISION

1. Four hours of Physical Education (Activities).
Note: For two of these hours work in Military Science may be substituted.
2. At least one course (two semesters) in each of five of the following divisions (I-VII), no one of the groups (A,B,C) to be passed over.

Group A.

- Division I. Art; Music (Theory and Appreciation).
- II. English; Public Address.
- III. French; Italian; Spanish; German; Greek; Latin

Group B.

- Division IV. Biology; Botany; Zoology.
- V. Mathematics; Chemistry; Physics; Astronomy; Geology.

Group C.

- Division VI. Economics; Education; History; Political Science and Law; Sociology.
 - VII. Philosophy; Psychology; Religion.
3. Courses at student's choice in any of the above named departments, in Military Science, Hygiene (Physical Education A5) enough to make up a sum total of 64 hours.

II. FOR THE UPPER DIVISION¹

1. Two hours of Physical Education (Activities).
2. Sixty other hours, election subject to the following principles of distribution:
 - a. Each student shall complete during each semester of Junior year at least one course (not less than 2 hours) each of three of the following nine departmental groups:
 - I to VII, as above.
 - VIII, Physical Education.
 - IX, Military Science.
 - b. Each student shall complete for graduation not less than 60 hours of C and D work, at least 12 of which shall be of D rank.

These General Requirements are designed to protect the student against gross errors in shaping his collegiate program, especially

¹Prior to graduation, all students are required by the laws of the State of California to pass a course or an examination on the Constitution of the United States. This requirement may be met by Political Science B3b, or D 111.

During the Lower Division years; they intentionally leave him a great deal of freedom to shape his course of study according to his interest. In the exercise of this freedom it will be the part of wisdom for him to take advantage of the working organization of the curricular program into sequences of courses, departments and divisions, looking upon these things as aids of which he, as student, may avail himself in the process of securing an education. Courses, etc., are, however, merely aids toward, not substitutes for, reading, selection and independent study.

In the evaluation of all academic exercises the quality of English used by the student will be weighed together with the soundness and completeness of his thinking. Before any student is accepted to upper division standing he must satisfy a committee of the College of his ability habitually to use English of good quality.

THE PROGRAM OF STUDIES

To each student the College strongly recommends the shaping of a program of studies that will mean (1) by the end of the Sophomore year, an intelligent orientation in as many as five of the great fields of learning corresponding to the "divisions" (I-VII) of the preceding statement of Requirements for Graduation, and (2) during the Junior and Senior years, a relative concentration of effort in some one of those fields, such a concentration as is needful for the effective organization of one's Collegiate program as a whole.

CONCENTRATION IN SPECIAL FIELDS

For the guidance of the student who wishes to work out a program of concentration in a particular field certain principles and methods of procedure have become established:

1. Lower Division Preparation: There must be sufficient Lower Division (A and B) work in the special field and in allied fields to ensure adequate preparation for carrying successfully the Upper Division work aimed at.

2. Upper Division Requirement: Not less than eighteen hours of Upper Division (C and D) work in the field of concentration; six of these eighteen hours must be of D rank, and six of them must be taken during the Senior year.

3. Foreign Language: For advanced work in most fields a reading knowledge of at least one modern foreign language is necessary—usually French or German; in some fields a command of which is most desirable. It is very much to the advantage of the student to acquire this reading knowledge before entering college.

4. Comprehensive Examination: In most divisions of the College the student's program of concentration culminates in a final "comprehensive examination" covering the entire field in which his concentration lies.

5. Adviser: That member of the faculty in whose field a student is working intensively becomes the student's official adviser

during his Junior and Senior years. It will be well for the student to consult his prospective adviser even earlier in his course.

The application of these ideas involves to such a degree a recognition of differences between fields of learning and between individualities of students that no summary statement of them should be thought of as complete. The attention of those interested in special fields is therefore directed to the following more extended presentations of the work of the respective divisions. In addition, certain pre-professional courses are also presented in outline for the benefit of students who look toward teaching, engineering, or medicine.

Most of the statements made in connection with concentrations should be read as suggestions rather than as rigid regulations; the degree of emphasis attached to each such suggestion will be determined for the student by his adviser.

DIVISION I — FINE ARTS

(DEPARTMENTS OF ART AND MUSIC)

Courses in the history, appreciation, and theory of art and music are offered by the College as contributions to personal culture, and receive credit toward the Bachelor of Arts degree on the same basis as other academic courses. In the fields of applied music and art technical proficiency is aimed at, with the idea, first, of developing an appreciative taste, and second, of stimulating creative expression as worthy of expression.

APPLIED ART WORK: This is divided into two branches to meet the student's preference for Drawing and Painting, which look toward Fine Arts endeavors, or for Design and Crafts, which relate to the Industrial Arts and the home. In recognition of the interdependence of Design and Drawing as the basis of all art training, fundamental courses in both subjects should be pursued early in the college course. Theory and History courses must be included with advanced work in either branch of Applied Art study. The student will be expected to present his work in the Departmental Exhibition at the end of each year. Upon the completion of the third year of study the student will be expected to have a separate exhibition of his work of that year.

APPLIED MUSIC: The student may take music as a subject of concentration in his course leading to the Bachelor of Arts degree. In addition to this it is possible to meet the requirements of the State Board of Education for the Special Credential in Music, which enables those recommended by the College to teach music in the public elementary and secondary schools of the State of California. The student, whether concentrating in music or working toward the special credential should take the beginning harmony and sight singing courses in his first year; otherwise he may have difficulty completing the requisite courses in four years.

Each candidate for the Special Credential in Music must give a satisfactory public recital in his major subject in Applied Music. Other requirements are varied according to the type of credential (General Public School Music, Voice, Piano, Organ, Violin, or Special Instruments) which is desired by the candidate. Complete information as to these requirements may be obtained from the Department of Music.

The student in applied music will be enrolled for credit toward the Bachelor of Arts degree upon the written recommendation of the Head of the Department of Music. This recommendation is based upon a system of proficiency tests given before an examining committee of the music faculty. In addition, the work in applied music must be accompanied or preceded by first year harmony to receive credit. A second year or more of credit is possible when an applied music course is accompanied or preceded by second year harmony. A minimum of two half-hour lessons weekly is required. Proficiency tests are required only of students desiring credit toward the Bachelor of Arts degree.

THE PROGRAM OF STUDIES

DIVISION II — ENGLISH

(DEPARTMENTS OF ENGLISH AND PUBLIC ADDRESS)

PREREQUISITES for undertaking concentration in English in Upper

Division:

1. Foreign Language: High School Latin,—not less than two years; a reading knowledge of French (or German).
2. Proficiency in the use of English, whether oral or written, a measurable mastery of the fundamental principles of literary criticism and interpretation.
3. An intelligent acquaintance with the books of Reading List I.

THE MEASURE OF ACHIEVEMENT set up as a standard:

1. A general knowledge of the subject *English Literature*, with particular attention to major figures such as Chaucer, Spenser, Shakespeare and Milton, and a somewhat specialized knowledge of the English and American literature of the last two hundred years.
2. a. A general knowledge of English history—especially in its cultural aspects.
b. A knowledge of English geography, topography, etc., as *place* and *physical environment* in relation to literature and their works.
3. Some understanding of the more significant movements in the field of philosophy, especially as they apply in the realm of literature and art.
4. An intelligent acquaintance with a share of the great books of the world, particularly with those appearing in Reading Lists I and II.
5. An average of B or better in divisional courses of C or rank.

THE COMPREHENSIVE EXAMINATION: The success of the student in meeting the standard set up will be tested in a final Comprehensive Examination at the close of the Senior year.

A SUGGESTED COURSE for students proposing to concentrate in English, or to emphasize English in their collegiate programs:

LOWER DIVISION

Freshman year: English A1; History A1; French (or German); Biology A1; some Physical Science.

Sophomore year: A B course in English; History B7*; French (or German); Philosophy B21 or B23; Psychology B1; Public Address B32 or B33.

UPPER DIVISION

English C103, followed by English D215; Philosophy C125. A second English course each year is recommended.

*If another Social Science, as Economics B11 or Sociology B21, is substituted, then History B7 should be taken in the Junior year.

DIVISION III — FOREIGN LANGUAGES AND LITERATURES

(FRENCH, GERMAN, GREEK, ITALIAN, LATIN AND SPANISH)

CONCENTRATION IN THE DIVISION

A student interested in the synthetic study of the complete field of foreign letters may, under an adviser appointed by the division, pursue work in the various departments of the division, thereby concentrating in the division. Such a student should hold non-credit bearing conferences from time to time with the divisional faculty, looking toward a comprehensive examination in the general field of foreign languages and literatures.

CONCENTRATION IN DEPARTMENTS

A student planning to concentrate upon any one of the foreign languages should have begun his study of that language before entering college. Preparatory work in some other language is also a distinct advantage.

Although the student is normally expected to concentrate in only one of the departments of Foreign Languages, he should acquire as broad an acquaintance as possible in all the other fields of literature represented in the division.

Eighteen to twenty-four hours of C and D work are required in the department concerned, in which at least a B average must be maintained. For a student desirous of doing more specialized work than is possible under the regularly scheduled offerings, the Honors program presents additional opportunity. At the end of the Senior year a comprehensive examination will be required.

LATIN AND GREEK

Concentration in the Classical Languages is designed to give a student a technical knowledge of the language and literature of his special interest and an appreciation of the life and institutions intimately connected with that literature.

The student of Latin is expected also to have an acquaintance with the Greek language and literature. It is not essential however, in the lower division courses of Latin.

ROMANIC LANGUAGES AND LITERATURES

A student expecting to concentrate in the Romanic Languages and Literatures should be fortified with a pre-knowledge of Latin, and will find it much to his advantage to have begun the study of French or Spanish, or both, before entering college.

Concentration in the Romanic Languages and Literatures is designed to provide: first, a broad general knowledge of both the language and literature of the student's special interest; and second, a considerable knowledge, represented by not less than two years of college work in at least one other language of the Romance field.

A student who is well equipped in foreign language on entering college, is urged to take work in all three of the Romanic Languages.

GERMAN
In German the cultural aspects of the subject are stressed, with special attention to studies of German civilization as represented in the best works of literature, philosophy, art and science.

DIVISION IV — BIOLOGICAL SCIENCES

(DEPARTMENTS OF BIOLOGY, BOTANY AND ZOOLOGY)

I. OPPORTUNITIES.

The location of Pomona College, close to mountain, desert coastal plain and sea, makes it especially suited to studies of systematic and ecological nature. This assures also an adequate and diversified supply of materials for class and laboratory and for special problems of a morphological or physiological nature. The College, furthermore, possesses a number of special biological collections, notably of plants and insects. The Marine Laboratory of the College at Laguna Beach is an adjunct valuable during the summer session and of use on occasion throughout the year.

II. CONCENTRATION IN THE DIVISION.

A student emphasizing biological science is ordinarily expected to have Biology A1, Botany B21, and Zoology B11, 12 (or their equivalents), followed by an integrated program in either Botany or Zoology or both. Those concentrating in this division are expected to participate in a non-credit bearing conference looking toward a comprehensive examination at graduation. A reading knowledge of German and French and a training in the physical sciences are also expected according to the needs of the individual.

III. COURSES PREPARATORY TO:

(1). Graduate work, looking towards investigation or higher education. Broad foundations in the biological and physical sciences, with liberal selections of advanced courses in the field of concentration, are essential for those who anticipate professional work in biological science.

(2). Teaching in secondary schools. Teachers of biological subjects and general science need basic courses in as many branches of science as possible. The following are also important: Plant Physiology and Taxonomy, Human Body, Entomology, Functional Zoology, Genetics and Bionomics.

(3). Museum work, conservation, nature guide work, field biology. In addition to the basic courses are recommended: Plant Taxonomy, Functional Zoology, Entomology, Special Problems in Geology.

(4). Horticulture, agronomy, landscape art, forestry. For the first two: Plant Physiology, Bacteriology, Entomology, Genetics, considerable Chemistry, Elementary Physics, Structural Geology. For landscape art: Plant Taxonomy, Freehand and Mechanical Drawing, Surveying, Chemistry, Geology, and Economics. For forestry: Plant Taxonomy, Entomology, Surveying.

(5). Medicine, nursing, laboratory technique, public health, and sanitation. Pre-medical requirements are discussed elsewhere. Inasmuch as medicine is highly biological, a liberal election of Embryology, Histology, Neurology, Functional Zoology is recommended. Work in Entomology, Bacteriology and General Botany is recommended in addition to the above for Public Health.

DIVISION V—PHYSICAL SCIENCES

(DEPARTMENTS OF ASTRONOMY, CHEMISTRY, GEOLOGY,
MATHEMATICS AND PHYSICS)

The Division of Physical Sciences renders through its freshman and sophomore courses two quite distinct types of educational service:

1. For persons who are not intimately concerned with science or scientific pursuits it offers a general introduction through survey courses to modern scientific method, to the philosophic aspects of science, and to the place of the sciences in the general scheme of human affairs, along with the theoretical and descriptive presentation of the subject-matter. Conspicuous among such courses are: Mathematics A5, Physics A1, Chemistry A1, Astronomy B1 and Geology B1.

2. For those who incline toward more emphasis on the physical sciences during their collegiate years, whether for purposes of teaching, or with a view to engaging in commercial enterprises requiring knowledge of physical science, or because of an interest in scientific study for its own sake, the Division offers excellent opportunities for concentration.

PREREQUISITES for undertaking concentration in Physical Science:

1. Physics and Chemistry: Fundamental in importance is such an understanding of the constitution and value of matter and energy as is ordinarily gained through basic courses in Physics and Chemistry.

2. Mathematics: A practical knowledge of the tools of scientific reasoning acquired in Mathematics is essential. This will require mathematics courses at least through calculus. It is urged that those planning such work in college complete trigonometry in high school.

3. Foreign Languages: It is highly desirable that the student proposing to concentrate in the Physical Sciences shall acquire a working knowledge of both French and German. The more this knowledge is gained during the high school years the better.

CONCENTRATION: Each one of the departments grouped in the Division has its own sequence of courses for the student concentrating in its section of the general field; but it also requires supplementary work in related departments. In addition, there are opportunities for concentration in fields that cross departmental lines. The combinations and implications are too markedly individual, however, to permit of a satisfactory general statement; they must be worked out between the student and his adviser.

DIVISION VI — SOCIAL SCIENCES

(DEPARTMENTS OF ECONOMICS, EDUCATION, HISTORY,
POLITICAL SCIENCE AND LAW, AND SOCIOLOGY)

CONCENTRATION IN THE DIVISIONS: Although emphasis in the program of a student concentrating in the Division is placed on an integrated sequence of studies in one of the social sciences, it is expected that the student will obtain a broad understanding of the content and meaning of the social sciences as a whole. With this in view he will include early in his course at least three of the four basic courses¹ in the Division. He will maintain a "B" average in the social studies, will complete 24 hours in "C" and "D" courses in the Division of which at least 12 must be "D," and will include courses D251 and D252 in the social science of his more intensive study.

FOREIGN LANGUAGE: It is recommended that every student concentrating in the Division of Social Sciences acquire a reading knowledge of French *and* German. Normally by the beginning of the Junior year but not later than the middle of his Senior year the student is required to file with his Adviser a written certificate of his ability to read French *or* German, issued by a member of the Division who has been designated to examine in those languages.

COMPREHENSIVE EXAMINATION. The work of a candidate concentrating in social sciences culminates in a written comprehensive examination, administered by the Division. This examination consists of two parts: (1) a general examination to reveal the candidate's grasp of the broader aspects of the several social sciences at their interrelations, and (2) a more specialized examination to test his mastery of the particular social science which the candidate has studied intensively. Inasmuch as the purpose of the comprehensive examination is to appraise the candidate's integration of the entire range of social studies included in his undergraduate program, the passing of both parts of this examination will exempt the student from final examinations in social science courses at the end of his Senior year.

The following courses offered by the Department of Education are considered to be part of the work of the Division of Social Sciences:

Introduction to Education; History of Education.

SUPPLEMENTARY COURSES: In addition, the courses listed below and other courses approved by the Division, may form a part of a student's program of concentration in the Social Sciences:

Philosophy of the State; Philosophy of History; History of Philosophy; Social Psychology.

The attention of social science students is called to certain courses available to them, offered by affiliated colleges in Claremont.

¹Economics B11, History A1, Political Science A1, Sociology B21.

DIVISION VII — PHILOSOPHY, PSYCHOLOGY AND RELIGION

A SUGGESTED COURSE during the Lower Division years for those proposing to concentrate in the Division:

Freshman Year

Biology A1
Chemistry A1 or Physics A1
History A1 or Political
Science A1
English A1
Religion A1

Sophomore Year

Zoology B3 or Astronomy B1
Psychology B1 or B3
Economics B11 or Sociology
B21
Philosophy B21 or B23
Religion B

Note: A reading knowledge of French and German is ultimately necessary for persons who undertake advanced graduate work in the field of the division.

CONCENTRATION IN THE DIVISION requires:

1. The completion of the following basic courses:
Philosophy C125 or C127;
Psychology B1 or B3;
Religion C109.
2. The completion of forty hours in the division; eighteen of these hours shall be taken in one of the departments of the division; six of them shall be of D rank.
3. The maintenance of a grade of B or better in divisional courses.
4. The passing of a comprehensive examination covering the entire field of concentration at the close of the senior year.

A SUGGESTED PRE-ENGINEERING COURSE

In the belief that the training of a liberal arts college, so essential to men in other professions, is essential to the engineer Pomona has developed a series of courses to enable its graduates to enter the upper division work of engineering schools and graduate therefrom in two years. Men during the first two years will take the same course regardless of the field of engineering contemplated.

FRESHMAN YEAR

Chemistry B3 or A1 and B2.....	6
Mathematics B13.....	6
Mathematics A7 (Engineering Drawing).....	4
Foreign Language.....	6
Elective	10

SOPHOMORE YEAR

Economics B11	6
Mathematics C115	6
Mathematics B9 (Engineering Drawing).....	10
Physics B2 and B4.....	10
Foreign Language	

JUNIOR YEAR

Chemistry B6 ^{1 2 3}	
Mathematics D120 ^{1 2 3}	
Astronomy or Geology ¹	6
Economics ¹	6
Physics C111 and D109 ^{2 3}	10
Electives	14 or

SENIOR YEAR

Mathematics D121 ^{1 2 3}	
Physics D120 ³	
Physics D113 ^{1 2 3} (Analytic Mechanics).....	
Electives	14 or

In addition the six weeks' summer course in surveying at Lake should be taken by all.

¹To be taken by civil, structural and hydraulic engineers.

²To be taken by aeronautical and mechanical engineers.

³To be taken by electrical engineers.

A SUGGESTED PRE-MEDICAL COURSE

Certain subjects have been designated by the Council on Medical Education of the American Medical Association as unconditional requirements for entrance to Class A medical colleges. Many of the leading medical colleges, however, have requirements well beyond this minimum. Pre-medical students are advised not to attempt to crowd the minimum requirements into two years of college work, but to build, in more leisurely fashion, a broad educational foundation. The outline below indicates a curriculum which meets the requirements for graduation from Pomona College, and, it is believed, the entrance requirements of all medical colleges in the United States.

Freshman Year

	Hours
English (A1)	8
Chemistry, General (B3 or B1, B2)	6 or 8
Mathematics (A2 and A4)	6
Trigonometry is prerequisite for Physics)	
German or French.....	6
Elective from Div. VI or VII	6 or 4

Sophomore Year

	Hours
Chemistry, Analytical (B6, B7)	6
Zoology (B11, B12).....	6
Psychology	6
German or French.....	6
Mathematics or free elective....	6

Junior Year

Chemistry, Organic (C110)	8
Physics (B2, B4)	8
Zoology (D113, D114 or D117)	6
Electives from Divisions other than IV and V.....	10

Senior Year

All elective. A major in either Chemistry or Zoology may be completed. Subjects especially recommended are Philosophy, Sociology, Economics, Language and Literature, and Psychology.	
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A reading knowledge of both German and French is highly desirable. If one has been taken in High School, it is recommended that the other be taken in college. High School work in Latin, as well as French and German, is recommended for those planning the medical course. High School trigonometry, physics and chemistry are also recommended. For one wishing to concentrate on the technical phases of the medical sciences, mathematics through calculus should be taken in college. Some of the medical schools are including physical chemistry in their curricula. Breadth of view, initiative, and a thorough grounding in the biological and physico-chemical sciences are the objectives of the pre-medical course.

A SUGGESTED COURSE FOR PROSPECTIVE TEACHERS

The courses in Education in Pomona College are designed to supply the information each intelligent citizen should have concerning one of the most important of our social institutions; they offer also to the prospective teacher a certain amount of pre-professional training.

CERTIFICATES: In California every teacher must have a certificate. The certificate is issued by the county in which the teacher is employed upon presentation to the county board of education of a qualifying credential issued by the State Board of Education through the Commission on Credentials. The Commission issues the credential to the candidate upon the basis of evidence furnished by the candidate's college that he has completed the requirements laid down by the state. Requirements vary for different certificates and those who contemplate entering the teaching profession should make themselves familiar with these requirements as indicated in the bulletin of the State Board of Education which may be had by application to the State Board in Sacramento.

The more technical professional requirements are not usually met by courses offered in Pomona College and will need to be satisfied by courses taken in Claremont Colleges or elsewhere. Pomona College, however, does undertake to offer the prospective teacher the opportunity of becoming thoroughly acquainted with the fundamental concepts of education as a social institution and of laying a broad foundation upon which future technical training may profitably be built.

A SUGGESTED PROGRAM for the prospective teacher:

Freshman year: Academic courses preparatory to the credential in view.

Sophomore year: Education B3; Psychology B1; further work in the subject-matter to be taught.

Junior year: Education C104 a, b; Psychology C107¹; further work in the subject-matter to be taught, or in related fields.

Senior year: A selection from Psychology D125; Psychology D117¹; Education D215; Education D217. A rounding out of the subject-matter to be taught.

¹These courses count technically as Education in all matters involving credentials.

COURSES OF INSTRUCTION

DESIGNATION OF COURSES

The letter preceding the number in the designation of a course indicates in general its grade. Elementary courses, designated by (as English A1) are given in Freshman or Sophomore year; B courses are either those which follow the A course of earlier years or the more advanced beginning courses; C and D Courses are advanced courses given to Juniors and Seniors, D courses being the more difficult. The natural sequence of courses is from A to B, B to C and C to D, and a student may not enter a C or D course without previous work in the same line.

Courses with numbers below 100 are underclass courses; those numbered from 100 to 199 are for Juniors and Seniors; those numbered over 200 are not open to students of less than Senior standing.

Any course may be withdrawn if the enrollment is less than five.

In departments where one-hour courses are offered, two such courses should be completed to secure the counting of hours and credits toward graduation.

When courses in different semesters have the same general number and are connected by a hyphen thus, B1a-B1b, they cover a common subject and the entire sequence should be taken. If, however, they are connected by a comma, thus, B1a, B1b, although the course extends throughout the year, independent credit is given for the work of the first semester and the first course may be followed by the allied subject instead of the next course in the sequence. Entrance to the second semester course is by permission of the instructor.

All courses are three hours each unless otherwise designated.

Roman numerals show the periods of recitations. Two courses with the same Roman numerals cannot be taken contemporaneously unless the numerals are preceded by different letters (as *M* or *W*), showing that the classes meet on different days of the group.

	7:30	8:30	9:55	10:55	1:15	2:15	3:15
VF.....	<i>I</i>	<i>III</i>	<i>V</i>	<i>VII</i>	<i>IX</i>	<i>XI</i>	<i>XIII</i>
	7:30	8:30	9:30	10:30	1:15	2:15	3:15
hS.....	<i>II</i>	<i>IV</i>	<i>VI</i>	<i>VIII</i>	<i>X</i>	<i>XII</i>	<i>XIV</i>

Hours to be arranged—*A*.

If a letter precedes the numeral, the class meets only on that day of the group.

ART

A fee of \$5 is charged for each hour of credit except in course B100.

A1a-A1b. Design.

MR. BEGG

A study of the elements of design in primitive art and historical ornament, and their application to various types of original commercial designs. 2 hours. Class, *MW, V*; laboratory, *A*.

A2a-A2b. Drawing.

MR. BEGG

Study of the theory of perspective with practice in out-door sketching. Still-life in pencil and work in pen-and-ink and color are included. 2 hours. Class, *TTh, XII*; laboratory, *TTh, XIV, or A*.

B11a, B11b. Advanced Drawing.

MR. BEGG

In the first semester, cast drawing in charcoal followed by portrait drawing from the model in the same medium. In the second, pictorial composition considered in relation to commercial design and illustration in charcoal, pen-and-ink, color. 2 hours. Class, *WF, IX*; laboratory, *WF, XI and XIII*.

B100. Art Interpretation.

MR. BEGG

A course for students wishing to know how art applies in everyday life. A study of art in the home and community. Second semester. 2 hours. *WF, VII*.

C120a-C120b. Painting.

MR. BEGG

Practice in Still-life and Landscape is adapted to a study of the techniques of various historic schools of oil painting. These are explained by means of a system of set palettes which afford understanding of painting principles and an opportunity for the development of individuality of manner. 2 hours. Class, *TTh, XII*; laboratory, *TTh, X and XIV*.

D205a-D205b. Advanced Painting.

MR. BEGG

Attention is given to the completion of easel pictures including the portrait and the decorative composition. A large finished canvas is required in the second semester. 2 hours. Class and laboratory. *A*.

ASTRONOMY

B1a-B1b. General Astronomy.

MR. WHITNEY

A non-mathematical course dealing with the general facts of astronomy, including regular observations at the Observatory; designed for students who have only elementary preparation in physics or chemistry and mathematics. Classroom, two hours a week; lecture and observatory amounting to one period a week. Laboratory fee, \$3.00 per semester. *VII*.

101-C102. Astronomy and Cosmogony. MR. BRACKETT

A special course in the essentials of the subject, designed for students who have a working knowledge of analytic geometry and calculus and of the more important principles of physical science, including, in the second semester, a study of recent theories of cosmogony as compared with historical hypotheses. Classroom, two hours a week; lecture and observatory amounting to one period a week. Laboratory fee, \$3.00 per semester. *IV*.

03a-C103b. The Sun and Other Galactic Stars**MR. BRACKETT and MR. WHITNEY**

A systematic study of the sun and its observable phenomena, including sunspots, prominences and various forms of radiation. The results of recent and contemporaneous work are integrated with the student's own observations with the horizontal telescope, pyrheliometer, spectrograph and spectrohelioscope. Observational study begun in the first semester continues throughout the year. At the same time systematic observation of certain variable and binary stars is carried on, with construction of light curves and discussion of their classification and origin.

The year course constitutes a comprehensive study of our sun and its relation to other stars of the universe. Laboratory fee, \$5.00. *A*.

04. Theoretical and Practical Astronomy, A.**MR. WHITNEY**

Some phase of theoretical and practical astronomy, such as the determination of time, latitude, and longitude, with their applications to marine and aerial navigation. Classroom, one hour a week; observatory work amounting to two hours a week. First semester. Fee, \$5.00. *A*.

05. Theoretical and Practical Astronomy, B.**MR. BRACKETT**

A short course in Celestial Mechanics or the application of the principles of mechanics to the motions of the heavenly bodies, with problems in the computation of orbits or the determination of the circumstances of eclipses. Elements of differential and integral calculus required. Second semester. *A*.

Note: Either course C103a-C103b or courses D104 and D105 will be offered each year according to demand, but both will not ordinarily be given.

06a-D106b. Astrophysics.**MR. WHITNEY**

A comprehensive study of solar physics and the position of the sun in the general classification of stars. Laboratory work with telescope, spectrograph and spectrohelioscope is accompanied by a study of modern theories of stellar evolution.

The applications of the spectroscope to stellar distances and of the interferometer to star diameters are also considered together with the relation between modern theories of atomic structure and the interpretation of stellar spectra. Laboratory fee, \$5.00 per semester. *A*.

D230. Investigations in Astronomy.

MR. BRACKETT and MR. WHITNEY

Investigation in a particular field such as variable stars or solar physics, or in some phase of astrophysics. Each semester. 1 to 4 hours. May be repeated for credit. *A*.

BIOLOGY

A1a-A1b. General Biology.

MR. HILTON, MR. MUNZ and ASSISTANT

A general course for either those who intend to take further biological work or those who wish but one year. It may be taken for credit by students who have had high school biology, botany or zoology. Class, *TTh, VIII*; laboratory, *MTWTh, I*, *F, 1:15-4:10*. Laboratory fee, \$6.00 each.

C105. Bacteriology.

MR. MUNZ

General study of important bacteria, methods of culture and study, and importance in disease and agriculture. Prerequisite: one year of biological work. First semester. Class, *M, I*; laboratory, *WF, 1:15-4:10*. Laboratory fee, \$8.00. Breakage deposit, \$5.00. Alternates with C107.

C107. Genetics.

MR. MUNZ

A non-laboratory course covering modern developments in the study of heredity and evolution and their general application to plant and animal breeding and to eugenics and race questions. Class work will be accompanied by demonstrations, problems and discussions. Prerequisite: one year of biological work. First semester. *I*. Fee, \$3.00. Alternates with Botany C12 (*Omitted in 1930-1931*).

C108. Bionomics.

MR. HILTON

A course in the history of biological progress, including modern problems in evolution, heredity and eugenics. It is open to Juniors or Seniors who have had a year of biological work. May be taken with Zoology D131 for three hours. Second semester. 2 hours. *MW, I*.

BOTANY

B21a-B21b. General Botany.

MR. MUNZ

A general introductory course to the study of plant life, covering the structure and life-processes of plants, and attempting

give a picture of plants as living organisms. A survey of the plant kingdom, giving the steps in the evolution series. Both laboratory and field work. Prerequisite: one year of high school or college laboratory science. Class, *MW, VII*; laboratory, *Th, 1:15-4:10*. Laboratory fee, \$6.00 a semester.

23. Plant Physiology.

MR. MUNZ

A study of the physics and chemistry of plant-life, discussing the nutrition, life-processes, absorption, conduction, transpiration, photosynthesis, respiration, growth, etc. Important for those students contemplating horticultural work, teaching of biology, and for botany majors. Prerequisite: Botany B21. First semester. *A*. Two class periods and one laboratory. Laboratory fee, \$8.00. Breakage deposit, \$5.00. Alternates with Biology C107. (*Omitted in 1930-1931*).

25a, D125b. Taxonomy.

MR. MUNZ

Study of our local flora and more common cultivated ornamentals. Principles and methods of classification and taxonomic work. Much field work with trips to desert, mountain, and shore for study of plants in their native conditions. Prerequisite: Botany B21. First semester, Class, *WF, III*; laboratory, *M, 1:15-4:10*. Second semester, Class, *F, III*; laboratory, *MW, 1:15-4:10*. Laboratory fee, \$7.00 each semester. Alternates with D127. (*Omitted in 1930-1931*).

27a, D127b. Anatomy and Comparative Morphology

of Green Plants.

MR. MUNZ

The anatomy with special reference to vascular tissues from the evolutionary point of view. Morphology covering life-histories, evolutionary series, and relationships of groups of green plants from algae to seed plants. Prerequisite: Botany B21. Class, *WF, I*; laboratory, *M, 1:15-4:10*. Laboratory fee, \$7.00 a semester. Alternates with D125.

31. Botanical Problems.

MR. MUNZ

Special work, largely individual, and primarily for majors in the department. Each semester. 1 to 3 hours. May be repeated for credit. Permission of instructor necessary for registration. Laboratory fee, \$2.00 per hour of credit.

CHEMISTRY

a, A1b. A Survey of Chemical Science.

MR. ROBINSON

Intended especially for those who are planning no further work in chemistry, but with Chemistry B2 may serve as preparation for advanced courses. Presents our present-day concepts of the nature of matter and its behavior, the origin of these concepts, and the place of chemistry in human affairs. No laboratory. *V*. Fee, \$2.00 each semester to defray expenses of lecture demonstrations.

B2. Experimental Inorganic Chemistry.**MR. KENNA**

To accompany or to follow Chemistry A1b. Intended, in lieu of Chemistry B3, for those who are planning further science work. Laboratory work similar to that of B3a,b, with assigned problems and studies. Either semester. 2 hours. Laboratory, *TTh, 1:15-4:10*. Laboratory fee, \$10.00.

B3a, B3b. Inorganic and Elementary Theoretical Chemistry.**MR. ROBINSON and MR. KENNA**

A foundation course for those who are planning further work in science. Entrance chemistry is prerequisite, except by the consent of the instructors. Class, *TTh, II*; laboratory, *TTh, 1:15-4:10*. Laboratory fee, \$6.00 each semester.

B6. Qualitative Analysis.**MR. TRUESDA**

Prerequisite: Chemistry B3 or A1 and B2. Laboratory practice in systematic analysis of anions and cations, and studies in the principles of chemical behavior. First semester. Class, *T, VII*; laboratory, *WF, 1:15-4:10*. Laboratory fee, \$10.00.

B7. Elementary Quantitative Analysis.**MR. TRUESDA**

To be preceded by Chemistry B6. Laboratory practice in the simpler volumetric and gravimetric methods of analysis, study of these methods and problems involving chemical calculation. Second semester. Class, *T, VIII*; laboratory, *WF, 1:15-4:10*. Laboratory fee, \$10.00.

C110a, C110b. Organic Chemistry.**MR. ROBINSON**

Prerequisite: Chemistry B3 or A1 and B2. In the first semester a survey of the principal classes of carbon compounds and their characteristics, both aliphatic and aromatic; in the second semester, more complex compounds, studies in synthetic methods, problems of structure, and applied organic chemistry. Class, *VII*; laboratory, *1:15-4:10, T, W*, 4 or 5 hours. Laboratory fee, \$6.00 or \$10.00 each semester.

C111. Advanced Quantitative Analysis.**MR. TRUESDA**

A continuation of B7, designed to give the student a more comprehensive knowledge of the theory and practice of volumetric and gravimetric analysis. Second semester. Class, *Th, VI*; laboratory, *WF, 1:15-4:10*. Laboratory fee, \$10.00.

D113. Special Analytical Methods.**THE STAFF**

Consent of instructor required. Opportunity for the student to familiarize himself with methods not covered in B7 and C111, such as micro-chemistry, spectroscopy, organic analysis, field analysis, etc. Laboratory and conference, *A*. Each semester, 2 or 3 hours. May be repeated for credit. Laboratory fee, \$5.00 per hour.

14. Advanced Organic Chemistry. MR. ROBINSON

Prerequisite: Chemistry C110b. Opportunity for additional study in the theory and laboratory methods of organic chemistry. Laboratory and conference, *A*. Each semester, 2 or 3 hours. May be repeated for credit. Laboratory fee, \$5.00 per hour.

15a, D115b. Biological Chemistry. MR. TRUESDAIL

Prerequisites: Chemistry B7 and C110, or consent of instructor. Lectures and reports, and qualitative and quantitative experiments on the chemistry of the materials and life-processes of organisms. The fundamental principles of human nutrition are included. Class, *WF, III*; laboratory, *F, 1:15-4:10*. Laboratory fee, \$6.00 each.

19a, D119b. Physical Chemistry. MR. KENNARD

First semester:—Prerequisite: A C course in either chemistry or physics. A general review of elementary physical chemistry. Second semester:—Prerequisite: Chemistry D119a, differential and integral calculus. More intensive study in special fields, with emphasis on the principles of thermodynamics. Class, *TTh, VIII*; laboratory, *M, 1:15-4:10*. Laboratory fee, \$8.00 each.

21a, D121b. Chemistry Conference. THE STAFF

Oral or written reports by students, on material found in current chemical literature; discussions of research methods, the trend of present-day research, and recent developments in theoretical and applied chemistry. Each semester. One hour. *A*.

201a, D201b. Research in Chemistry. THE STAFF

Opportunity for the properly qualified student to gain some acquaintance with investigational methods used in the field of Chemistry. Problems in physical, analytical, organic or biological chemistry may be undertaken, with the consent of the instructor under whom the student wishes to work. 2-6 hours. *A*. Each semester. May be repeated for credit. Fees, \$3.00 per hour.

ECONOMICS**Aa-A5b. Accounting. MR. NESS**

A study in theory and method, developing from the balance sheet the fundamental principles underlying alike the construction and interpretation of financial records. *MF, VII*, and *T or V, 1:15-4:05*. Laboratory fee, \$3.00 each semester.

B1a-B11b. Principles of Economics. MR. DUNCAN

The basic course in the general principles of Economics. Required for students expecting to emphasize the study of Economics, and prerequisite for upper division courses in Economics. Two sections. *I, III*.

B29. Statistical Methods.**MR. N. S.**

A study in method, in which it is sought to develop a critical attitude toward published statistics and to equip the student with such processes of analysis and presentation as will enable him to think in numerical terms. Second semester. *S, II.* Laboratory periods, *Th* and *F*, 1:15-4:10. Laboratory fee, \$4.00.

C105. Money and Banking.**MR. N. S.**

Principles of money, credit, and banking interpreted in the light of the institutions and financial organization designed to supply society with adequate media of exchange. First semester.

C106. Public Finance.**MR. DUNCAN**

Public expenditures, public revenues, public debt, and financial administration, with special attention to the theory and practice of taxation. Second semester. *IV.*

C109. Transportation Problems.**MR. N. S.**

An historical and analytical study of transportation principles and problems, with particular reference to railway transportation in the United States. Second semester. Offered in alternate years. (*Omitted in 1930-1931*).

C110. Corporation Finance.**MR. DUNCAN**

Principles underlying the promotion, financial structure and control, failure and reorganization of corporate enterprise, including some study of cooperative organizations. First semester. Prerequisite: Economics A5, or equivalent.

C120. Public Utility Economics.**MR. N. S.**

An historical and analytical study of public utility problems in the United States. Particular emphasis is laid upon the economics of overhead costs, the role of competition, regulation and valuation. Second semester. *VI.* Offered in alternate years. Given in 1930-1931.

D111. Investments.**MR. N. S.**

A study of investment and investment credit, and of the institutions utilized to facilitate the transfer of savings to permanent employment as capital. Together with C105 this course is designed to afford a view of the financial organization of society. Prerequisite: Economics C110. Economics C105 recommended. Second semester. *VIII.*

D115. Principles of International Trade.**MR. N. S.**

Principles and structure underlying international economic relations. Prerequisite: Economics C105. First semester. *VIII*

D116. Agricultural Economics.**MR. G. S. BURGESS**

A study of the application of economic principles to certain

problems of agriculture, such as land tenure, transport, labor, marketing and prices. Second semester. *II*.

17. Economic Problems of the Orient. MR. DUNCAN

A study of the economic, social and political problems of the Far East with special reference to current conditions in China. Enrollment restricted to those expecting to concentrate in Social Science and to others by special consent of instructor. First semester. *VII*.

19. Monopolies and Trusts. MR. G. S. BURGESS

A study of the economic and legal status of monopolies. First semester. *VI*.

22. Economic Theory. MR. DUNCAN

The special topics studied vary from year to year, and will include critical analysis of underlying economic theory and its development. The course aims to synthesize the student's work in Economics and culminates in the comprehensive examination required for those whose field of intensive study is Economics. Second semester. 3 hours. *A*.

EDUCATION

Introduction to Education. MR. DOUGLASS

A course designed for those who desire an understanding of the American school system. The outstanding problems of present-day education are examined and certain approaches to a solution of these problems are discussed. Prerequisite for Education C104, D215, D217. Each semester. First semester, *V*; second semester, *IV*.

04a, C104b. History of Education. MR. NICHOLL

The development of educational theory and practice from the Greek period to the present, with an attempt during the second semester to make a comparison of the established systems in American and typical European countries. *VII*.

10. Practice Teaching in Music and Physical Education.

Exercises in actual teaching under direction, regular conferences with the supervisor being a feature of the work. The course is open to those completing credential requirements during the current year. 4 hours. Each semester. *A*.

15. Principles of Secondary Education. MR. DOUGLASS

The factors and principles which underlie the theory and practice of secondary education, including the junior high school, the senior high school and the junior college. First semester. *VII*.

D217. Problems of Education.

MR. DOUGLAS

Stress is placed upon current educational questions and literature. Students may consider individual problems, 2 or 3 hours. Second semester. *A*.

ENGLISH

Writing and Speech are emphasized features of all Lower Division courses. Persons who have in mind to concentrate in English should complete Reading List I before the beginning of the Junior year.

A1a-A1b. English: An Introductory Course.

THE DEPARTMENTAL STAFF

The fundamental principles of literary criticism and interpretation together with reading and study of specimens of the most important literary types; instruction and practice in writing and speech. 4 hours. Prerequisite for all other departmental courses. Men: *WF, III*; section meetings at *IV*. Women: *T, IV*; section meetings at *III*.

B4. Shakespeare.

MR. FRAMPTON

A general course, including some consideration of Shakespeare's life and the conditions under which he lived and wrote, chief stress falling, however, on a study of the greater plays with a view to enabling the student to read Shakespeare with sympathetic appreciation. Second semester. *V*.

B5a, B5b. Nineteenth Century Literature.

MR. LINCOLN and MR. HOWARD

Wide reading in the literature of the period, in poetry and essays especially, with lectures on its significance as an expression and interpretation of general English life. Two sections, each limited in registration to twenty-five persons. *V*.

B7a, B7b. Types of Drama.

MR. DAVIS

Studies in the great periods of dramatic achievement from classic Greek to the present day with as extensive reading as time will permit. Offered to men and women in alternation; in 1930-1931 registration is limited to twenty-five women. *VII*.

B9a, B9b. Types of Prose Fiction.

MR. HARRIS

Studies in various phases, as tale, romance, novel and short story, through which fiction writing has passed from medieval times to our own. offered to men and women in alternation; in 1930-1931 registration is limited to twenty-five men. *II*.

B11. Character Presentation in Dramatic Literature.

MISS PRINCEHOUSE

The theory and technique of character presentation as found

selected plays. The course looks toward character-interpretation through the actor's art. Permission of the instructor must be secured before registration for this course. Each semester. *IV*.

E1. English Composition.

MR. HOWARD

A general course with emphasis on expository writing. First semester, *VI*.

ADVANCED COURSES

A substantial acquaintance with the books of Reading List I is most desirable as a preliminary to registration in Upper Division courses.

01. Chaucer.

MR. DAVIS

A study of Chaucer as the outstanding narrative and dramatic poet of the transition from the medieval to the modern world. The peculiarities of Chaucerian English will receive considerable attention. First semester. *V*.

03a, C103b. Literature of the Eighteenth Century.

MR. McCULLEY

The neo-classical literature of Dryden, Pope and their contemporaries; the periodical essayists; sentimentalism, realism and romanticism; the eighteenth century drama; the beginnings of the English novel; the spread of the romantic movement in England and on the Continent. Permission of the instructor must be secured before registration for this course. *II*.

05. American Literature.

MR. LINCOLN

The literature of the United States, with emphasis on its expression of our national characteristics and sentiments. Offered to men and women in alternation; in 1930-1931 registration is limited to women. First semester. *VI*.

07. Contemporary Poetry.

MR. LINCOLN

A course in the forms and content of contemporary poetry with directed practice in the writing of verse. First semester. *VII*.

C11. Short-Story Writing.

MR. HARRIS

Practice in supervised writing of short-stories. Study of contemporary short-stories. First semester. *V*.

2. The Essay.

MR. HARRIS

A writing course with some study of recent essay literature. Second semester. *V*.

022. Modern English.

MR. DAVIS

A study of the forms and usages of present-day English, with considerable attention to their historical development from times

as remote at least as the Chaucerian period. Prerequisite: English C101. Second semester. *V*.

D123a, D123b. History of English Drama to 1642.

MR. FRAMPTON

Lectures and readings tracing the historical development of English drama from its beginning to its flowering in the work of Shakespeare and his contemporaries; thence through its decline to the closing of the theatres. *VII*. (*Omitted in 1931*).

D125a, D125b. Shakespeare.

MR. McCULL

A study of Shakespeare's complete works. *I*.

D127. Literary Criticism.

MR. FRAMPTON

An examination of the bases of literary criticism; studies of outstanding modern critics; frequent practice in supervised critical writing. Second semester. *T, X and XII, and F, IX*.

D215a, D215b. The Development of English Literature.

THE DEPARTMENTAL STAFF

Lectures, reading, papers and oral reports directed toward synthesis on the student's part of his work in the field of literature and allied subjects; the course culminates in the comprehensive final examination required of persons concentrating in English. Prerequisite: English C103 (a grade of B or better) or an equivalent. Registration for the second semester is conditioned upon a grade of B or better in the first. *M, XI, and XII and XIII*.

D218. The Great Victorians.

MR. McCULL

The "major prophets," Carlyle, Ruskin and Arnold, and other forward-looking spirits, as Meredith and Hardy, receive emphasis. The work of eminent contemporaries, both English and Continental, is investigated and discussed in relation to the central figures and to the general social life of the period. Prerequisite: English C103 or an equivalent. First semester. *I*.

D230. Creative Writing.

MR. FRAMPTON

Supervised practice in all forms of creative writing. Study of matters and fields of literary interest. Second semester. *T, X and XII, and F, IX*.

FRENCH

A1a-A1b. Elementary.

MR. JONES, MRS. BISSIRI and MISS WAGNER

Stress laid on accurate pronunciation, essentials of grammar, translation of French prose; dictation, conversation and composition. Five sections. *II, VI, VII*.

3a-B3b. Intermediate.**MRS. BISSIRI, MISS HUSSON and MISS WAGNER**

Continuation of the grammar. Readings from nineteenth century novelists; selections from Chateaubriand, Hugo, Balzac, and others. Four sections, *II, III, IV, VII*.

3a, B4b. Grammatical Analysis.**MRS. BISSIRI**

An intensive study of grammar with emphasis on idiomatic French, original compositions, conversation, reading of contemporary French. Class conducted largely in French. Prerequisite: French A1 or equivalent. 2 hours. *TTh, VIII*.

05. Classic Drama.**MR. JONES and MRS. BISSIRI**

A study of typical plays by Corneille, Racine and Moliere, with collateral reports in French. Lectures in French. Prerequisite: French B3 or equivalent. Two sections. First semester. *V*.

06. Seventeenth Century Prose.**MRS. BISSIRI**

Study of Boileau, La Fontaine, La Bruyere, Descartes, Pascal, Bossuet, Fenelon, Mmes. de Sevigne, La Fayette and Mainenon; lectures and collateral study in French upon the age of Louis XIV. This and all following courses conducted in French. Second semester. *V*.

07a-C107b. French Conversation.**MRS. BISSIRI**

Practical course in French conversation based on modern colloquial usages. Prerequisite: French B3 and B4 or equivalent. 1 hour. *T, X*.

09. Literature of the Eighteenth Century.**MR. JONES**

A critical study of the French philosophers of the eighteenth century, with especial attention to Montesquieu, Voltaire and J. Rousseau. Collateral readings and reports by members of the class. Prerequisite: French C105 and C106. Required for French major unless D111 is taken. First semester. *IV*.

10. Romantic School.**MR. JONES**

An intensive study of the French poets of the early nineteenth century. Readings from Hugo, Lamartine, A. de Musset, and others. Collateral readings and lectures upon the period. Prerequisite: French C105 and C106. Required for French major unless D112 is taken. Second semester. *IV*.

1. Le Moyen Age.**MR. JONES**

Poetry of the middle Ages. Les chroniqueurs. Villon. Lectures upon the literary history of the period. Required for French major unless D109 is taken. First semester. (*Omitted in 1930-1931*).

D112. La Renaissance.**MR. JON**

Ronsard and the Pleiade. Rabelais and Montaigne. Poetry Marot. Lectures. Required for French major unless D110 taken. Second semester. (*Omitted in 1930-1931*).

D115. French Phonetics.**MRS. BISSI**

An advanced course for improving the technique of French expression. First semester. 2 hours. *A*.

GEOLOGY**B1a, B1b. Introductory Geology.****MR. WOODFO**

Dynamic, structural and historical geology. Prerequisite: High school chemistry or equivalent. Class, two hours a week; laboratory or field work, one period a week. Class, *WF, I*; laboratory, *W* or *Th*, 1:15-4:15. Laboratory fee, \$3.00 a semester.

B3. Determinative Mineralogy.**MR. WOODFO**

Prerequisite: High school chemistry or equivalent. First semester. Two laboratory periods. 2 hours. *A*. Laboratory fee, \$4.00.

C105. Crystallography.**MR. WOODFO**

Must be preceded or accompanied by Geology B3, unless taken upon the written recommendation of the Department of Chemistry or of Physics. First semester, 2 hours. *WF, V*.

C110. Petrology.**MR. WOODFO**

The study of rocks without the microscope. Prerequisite: Geology B1a, B3 and C105. Second semester. One class and two laboratory periods. *A*. Laboratory fee, \$4.00.

C107a-C107b. Invertebrate Paleontology.**MR. WOODFO**

Prerequisite: Geology B1b; recommended preparation: Zoology B11. Two class and one laboratory periods, first semester; one class and two laboratory periods, second semester. *A*. Laboratory fee, \$6.00 a semester. Given alternate years. (*Omitted in 1930-1931*).

D104. Field Geology.**MR. WOODFO**

Prerequisite: Geology B1b, C110. A summer course of three or six weeks. 3 or six hours. *A*.

D111-D112. Petrography.**MR. WOODFO**

Refraction and double refraction; the optical indicatrix; study of minerals and rocks with the petrographic microscope. Prerequisite: Geology C105. Two class and one laboratory periods, first semester; one class and two laboratory periods, second semester. *A*. Laboratory fee, \$5.00 first semester; \$8.00 second semester. Given alternate years.

230, D231. Geological Investigation and Research.

MR. WOODFORD

3 hours. A. Laboratory fee, \$4.00 each.

GERMAN

a-A1b. Elementary German.

MR. NEUFELD and MISS WAGNER

The acquirement of a small working vocabulary. Constant ear-training, and as much practice in speaking as time permits. Daily exercises in reading and writing. The essentials of grammar. Etymology. Comment on German life and literature. Three sections. II, V.

a-B3b. Advanced German.

MR. NEUFELD and MISS WAGNER

More advanced German language study through intensive reading and discussion of selected German works, with considerably extended reading in the field of the student's individual interest. Continued practice in German conversation. Some attention to an understanding of the cultural life of Germany, Austria and Switzerland. Prerequisite: German A1 or an equivalent. Two sections. III, VI.

C13a-C113b. German Literature and Life. MR. NEUFELD

A survey of German life and thought. Contemporary art and history. Works of general interest such as the Nibelungenlied, the lyrics of the troubadours, the writings of Martin Luther and some of the best modern German since the Reformation. VIII.

C99a-C109b. German Literature of the Nineteenth

Century.

MR. NEUFELD

Rapid reading of typical works from the time of Goethe until the present. Contact established with other European literary movements of the period. Discussion and papers. Prerequisite: German B3 or equivalent. (*Omitted in 1930-1931*).

One of the following courses, to be elected only with the consent of the instructor, may be offered if there is sufficient demand.

5. Goethe and His Times.

MR. NEUFELD

either semester. A.

7. Middle High German.

MR. NEUFELD

either semester. A.

GREEK

1-B1b. Elementary.

MR. ROBBINS and MR. WILSON

First lessons; relation to modern Greek and to English science.

tific vocabulary; selected short passages from Greek literature Book I of Homer's *Iliad*. *VIII*.

C101a, C101b. Selections from Greek Literature.

MR. ROBBINS and MR. WILSON

Two sequences of readings are offered in alternate years. Herodotus, Plato, Homer, Greek comedy and tragedy, the New Testament. Studies in morphology and syntax are regular features of the work. The course may be repeated for credit successive years. *IX*.

HISTORY

A1a-A1b. The Development of Western Civilization.

MISS STICKNEY and MR. COOKE

The evolution of civilization in Europe from antiquity to present, and its spread throughout the world. Attention is paid to the political, religious, intellectual, and economic forces of change. The aim is to lay a foundation for the understanding of contemporary problems. Normally a prerequisite for advanced courses in history. *I*, Miss Stickney; *II*, Mr. Cooke.

B7a-B7b. English History.

MISS STICKNEY

A survey of the development of the main features of civilization in England and the British Empire. Emphasis is laid upon the evolution of religious, intellectual, and economic forms as well as the growth of political institutions. Thus the course is largely a study of the cultural heritage of America. First semester, Great Britain to 1660; second semester, Great Britain and the Empire since 1660. *VIII*.

B8a-B8b. The Westward Movement in American History.

MR. COOKE

A study of the process of settling frontier areas in America since the beginning of colonization in America and of the influence of frontier environments upon the various aspects of American civilization—political, diplomatic, economic, and social. *III*.

C113a, C113b. Modern European History.

MR. COOKE

Following an introductory survey of the forces operating in the society of the eighteenth century a study is made of the French Revolution and the Napoleonic period. The development of European nations is traced in its political and cultural aspects with emphasis upon international relations, the World War, the League, and problems of reconstruction. First semester to 1878; second semester 1878 to the present. *VII*.

C117a, C117b. The History of the Greeks and Romans.

MISS STICKNEY and MR. ROBBINS

Grecian civilization from its establishment until the Roman period.

quest, followed by a study of Rome from the founding of the Eternal City until the reign of Justinian. *V*.

119. American Diplomatic History.

MR. COÖKE

An examination of American policy in such matters as neutrality and freedom of the seas, fisheries, commercial relations, the Monroe Doctrine, recognition of new governments, expatriation and protection of citizens abroad, immigration, disarmament, arbitration and international associations. First semester. *VI*.

125a-D125b. Economic and Social History of the United States.

MR. PITMAN

A study of agrarian, commercial, and industrial conditions which helped determine the character and importance of the major political and social problems of American colonial and national history. Attention is given to the economic foundations of American imperialism. Lectures, investigation of topics, and reports. *A*. (*Omitted in 1930-1931*).

132a, D132b. Development of Social Classes in the United States.

MR. VOORHIS

A study of the social and economic forces in American life which have brought about the dominance of various social classes at different periods in the history of the nation; and a consideration of the evolution of the United States from a nation dominated by the presence of a frontier of free land to a nation laboring with the complexities of a highly industrialized civilization. *T, VIII; Th.4-6*.

133. The Near East in Modern Times.

MISS STICKNEY

After an introductory survey of the history of the Near East since 1453, attention will be centered on the problems presented by the disintegration of the Ottoman Empire and the rise of nationalism. Second semester. *A*.

151, D252. The History Guild.

DEPARTMENTAL STAFF

An association of students and teachers into which seniors concentrating in historical studies are invited. Opportunity is offered to synthesize previous studies with directed reading in areas of historical literature not covered in formal courses. Historiography, schools of interpretation, inter-relations of the Social Sciences, and methodology will be within the scope of interest. 2 hours. *A*.

For courses in the history of education, *see* Department of Education; for history of philosophy and philosophy of history, *see* Department of Philosophy.

ITALIAN

B31a-B31b. Elementary.

MR. JONE

Essentials of grammar. Special emphasis upon pronunciation.
Composition and dictation. *XI.*

C133. Boccaccio and Petrarch.

MR. JONE

Selections from the Decamerone and other works of Boccaccio.
Study of the Canzoniere of Petrarch. First semester. *A.*

C134. Dante.

MR. JONE

Intensive study of the Inferno, with selections from the Purgatorio and Paradiso. Collateral readings with reports in Italian. Prerequisite: C133 or C135. Second semester. *A.*

D135. I Poeti dei secoli XVIII e XIX.

MR. JONE

A study of the foremost Italian poets and dramatists of the last two centuries. Collateral readings and reports in Italian. First semester. *A. (Omitted in 1930-1931).*

D136. Il Cinquecento.

MR. JONE

A study of the Italian epics of the sixteenth century. Reading from Bolardo, Ariosto, Tasso and others. Collateral readings and reports in Italian. Prerequisite: C133 or C135. Second semester. *A. (Omitted in 1930-1931).*

LATIN

A1a-A1b. Elementary.

MR. ROBBINS and MR. WILSON

An introductory course in the rudiments of the Latin language with emphasis upon the relation of Latin to English and to the Romanic languages. *VII.*

A2a-A2b. Cicero, Ovid and Vergil.

Cicero, Orations I and IV against Catiline and the Orations for Archias; selected passages from Ovid's Metamorphoses and Vergil's Aeneid. *VII. (Omitted in 1930-1931).*

B3a-B3b. Cicero, Pliny and Horace.

MR. ROBBINS and MR. WILSON

Cicero, De Senectute; Pliny, Selected Letters; study of the life and times of the late Roman republic and early empire. Horace, Odes and Epodes; philosophy, history and mythology as reflected in the poems of Horace; study of the metrics of Horace and the influence of the Greek lyric poets. *VI.*

C105a-C105b. Composition. MR. ROBBINS and MR. WILSON

Review of Latin grammar; translation of sentences and connected discourse into Latin according to the needs of the class; lectures on word-formation and syntax. This course may be

re-elected with credit and is required of students majoring in Latin. *A*. One hour.

107a, C107b. Roman Comedy and Elegy.

MR. ROBBINS and MR. WILSON

Selected plays from Plautus and Terence. Origin and development of the elegy with emphasis upon the poems of Catullus, Tibullus, Propertius and Ovid. *III*.

109a, D109b. Roman Philosophy and Pastoral Poetry.

MR. ROBBINS and MR. WILSON

Two sequences of readings are offered in alternate years: a, Roman philosophy, satire, and pastoral poetry; b, Roman historical and political antiquities. The course may be repeated for credit in successive years. In 1930-1931, sequence a. *IV*.

MATHEMATICS

1. Solid Geometry.

MISS BERRY

A semester course designed for those who present plane geometry for entrance and recommended for those who expect to take Mathematics C115. Second semester. *VI*.

2. Plane Trigonometry.

MR. TAYLOR and MISS BERRY

Elements of plane trigonometry with practical problems. Each semester. First semester, *VI*; second semester, *V*.

3. Algebra.

MR. TAYLOR

A semester course in second year algebra, designed for those who have studied algebra only one year. First semester, *V*.

4a-A5b. General Mathematics.

MISS BERRY

A non-technical course intended to give the general student an appreciation of mathematics and an understanding of its bearing upon the other subjects of a liberal education. *II*.

5a, B3b. Algebra.

MR. RUSSELL

Fundamental operations and quadratic equations; complex numbers; ratio, proportion and variation; binomial theorem; elementary functions; series; logarithms; theory of equations. Prerequisite: One and one-half years of high school algebra. *V*.

611. Surveying.

MR. TAYLOR

Use and adjustment of surveying instruments. Methods of making and mapping surveys for various purposes. Given during summer session at the Bluff Lake Camp of Pomona College. Prerequisite: Plane trigonometry. 6 hours.

B13a, B13b. Analytical Geometry and Calculus.**MR. RUSSELL and MISS BERR**

An elementary course in the principles of coordinate geometry and introduction to differential calculus. Designed to follow Mathematics A2, A5 or B3. Prerequisite: One and one-half years of algebra; geometry and trigonometry. *VI, I.*

D119. Theory of Equations.**MR. RUSSELL**

Theory and solution of higher algebraic equations, employing determinants, elimination and linear transformations. First semester. *II.*

C115a-C115b. Differential and Integral Calculus.**MR. RUSSELL**

A continuation of Mathematics B13a, B13b. *IV.*

D120. Differential Equations.**MR. RUSSELL**

A general course in the theory and solution of differential equations. Second semester. *II.*

D121a-D121b. Advanced Calculus.**MR. TAYLOR**

Some of the subjects studied are partial differentiation, elliptic integrals, line, surface, and volume integrals, Green's Theorem, Stokes' Theorem, and Fourier's series. *III.*

D127a-D127b. Projective Geometry.**MR. TAYLOR**

A study of the principles of projective geometry with special attention to the foundations of geometry. *III. (Omitted 1930-1931).*

GRAPHICS**A7a, A7b. Engineering Drawing.****MR. TAYLOR**

A beginning course in mechanical drawing and descriptive geometry. Includes lettering, use of instruments, orthographic projection, and the making and interpreting of working drawings. 1 or 2 hours. *TTh or F. 1:15-4:10.* Fee, \$2.00 per hour.

B9a, B9b. Engineering Drawing.**MR. TAYLOR**

A more advanced course in mechanical drawing and descriptive geometry. Treats of orthographic and perspective projection, machine and structural details. Prerequisite: Engineering 2 or its equivalent. 1 or 2 hours. *TTh or F. 1:15-4:10.* Fee, \$2.00 per hour.

C112a, C112b. Engineering Drawing.**MR. TAYLOR**

Design of cams, gears, machine parts and simple trusses. 2 hours. *TTh or F. 1:15-4:10.* Fee, \$2.00 per hour.

MILITARY SCIENCE

The college maintains an Infantry Unit, Senior Division, of the Reserve Officers' Training Corps, established under the National Defense Act for the general purpose of qualifying students for positions of leadership in time of national emergency. The courses include classroom instruction covering the basic technical knowledge required for appointment as commissioned officers of the United States Army and military drills designed to improve the posture and physical coordination of the student. Special emphasis is placed on the development of qualities of leadership, and the poise required by the student and his practical experience in the art of command may be applied in many walks of life. Students who successfully complete the four-year course will be tendered commissions as second lieutenants in the Officers' Reserve Corps.

The instructors in the department are officers of the Regular Army detailed for duty at the college by the War Department. The equipment provided includes a set of instruments for a 28-piece band and an ample supply of weapons including rifles, automatic rifles, machine guns, a one-pounder gun and Stokes Mortar, all of which are available for the use of students without cost. Allowances of ammunition for target practice are also furnished without charge.

The four-year course is divided into the basic course, consisting of the first two years, and the advanced course, consisting of the work of the third and fourth years. Enrollment in either course is voluntary but, when a student has elected either the basic course or the advanced course, completion of the course elected becomes a prerequisite for graduation. Students who have had military training in junior units of the R. O. T. C. may be admitted to advanced standing. In general two years work in a junior R. O. T. C. unit will be required for admission to the second year basic course and a minimum of three years work in a junior unit for admission to the first year of the advanced course.

The basic course is open to all physically fit male students who are American citizens. Enrollment does not involve any obligation of military service nor does it interfere with the student's participation in sports. Uniforms are issued without charge to students enrolled in the basic course.

Enrollment in the advanced course is limited to selected students who have completed the basic course or its equivalent and who enter into an agreement to attend one summer instruction camp for a period of six weeks. In consideration of this agreement students receive from the government cash allowances equivalent to a scholarship of about \$100.00 per year. All necessary expenses in connection with the summer camp, including transportation to and from camp, are provided by the government.

a-A1b. First Year, Basic Course.

MR. FECHET

National Defense Act and the R. O. T. C.; military courtesy and

discipline; military hygiene and first aid; close and extended order drill and ceremonies; rifle marksmanship; scouting patrolling. 1½ hours. Class, *M, III*; Drill, *M, 1:15-3:05*.

B3a-B3b. Second Year, Basic Course. MR. BAC

Automatic rifle; musketry; drill and command; scouting patrolling; combat principles of the rifle squad. 1½ hours. Class, *Th, VIII, or F, IX*. Drill, *M, 1:15-3:05*.

C105a-C105b. First Year, Advanced Course. MR. BAC

Map reading and military sketching; interpretation of aerial photographs; drill and command; machine guns; 37mm gun trench mortar; combat principles of the rifle section and platoon. 3½ hours. *III or VII and M, 1:15-3:05*.

D107a-D107b. Second Year, Advanced Course. MR. FECH

Infantry weapons; military law and Officers' Reserve Corps regulations; military history and policy; military correspondence and administration; field engineering and camouflage; drill and command to qualify the student to perform the duties of platoon and company commanders; combat principles of the rifle and machine gun companies and howitzer platoon. 3½ hours. *IV or M, 1:15-3:05*.

MUSIC

THEORY AND APPRECIATION

A1a-A1b. Elementary Harmony.

MR. ALLEN and MR. TIPP

A study of intervals, scales, tonal magnetism, primary triads, dominant seventh and ninth chords, and all non-chordal triads. Harmonization of melodies. A2 is recommended. Prerequisite: Elementary knowledge of the pianoforte. Two sections, *I, II*.

B3a-B3b. History and Appreciation. MR. ALI

A course tracing the development of music from ancient times to the present; biographical sketches of famous composers with a description of their principal works. Recitals, to aid in appreciation, are given frequently. Victrola and Duo Art. 1½ hours. *MF, XI*.

B5a-B5b. Advanced Harmony. MR. ALI

Secondary harmonies. Modulation and chromatically altered chords. Extensive keyboard drill. Creative work is encouraged from the beginning. Harmonization conducted on a melodic basis. Prerequisite: Music A1 or equivalent. *VII*.

C107a-C107b. Counterpoint. MR. ALI

A study of Simple Counterpoint in the five species with

aim to develop technique in voice leading. Two and three part inventions. Creative work in the simple forms of Free Composition is undertaken during the course. Prerequisite: Music B5. *VI.*

13a-C113b. Orchestration.

MR. CLOKEY

A study of orchestral instruments, their capabilities and limitations, and their use singly, and in groups; arranging of compositions for Symphony; "American" and "Theatre" Orchestra; the study of scores; the theory and practice of conducting. This course is especially designed to meet the needs of a student desiring the State Certificate. Prerequisite: Music B5. *III.*

108a, D108b. Free Composition.

MR. ALLEN

Advanced original work in the shorter free styles followed by the Sonata form. Prerequisite: Music C107. *A.*

19. Public School Music Methods.

MR. COLEMAN

Selection, presentation and interpretation of the song. Methods of developing sight-singing and other technical problems. A brief study of child psychology. Teaching plans with a bibliography of material. First semester. 2 hours. *A.*

APPLIED MUSIC

Class Instruction (No Special Fees).

1a, A2b. Ear Training and Sight-Singing.

MISS HAURY

A study of scale tones and their relationships together with a development of rhythmic appreciation. Melodic and harmonic dictation with a view to discriminative listening and proficiency in sight-reading. Recommended for all harmony students. Two sections. 3 hours' recitation. 2 hours' credit. *V* and *IX*. The section at *IX* is open only to students who have had one year of harmony.

1a, B7b. Choral Singing.

MR. LYMAN

The study and production of choral music, especial attention being given to diction, phrasing, content of the works dealt with, and an understanding of musicianship as applied to choral singing. The Class will be organized as the College Choir and as such will sing and practice on Mondays, Wednesdays and Fridays from 11:55 to 12:20, and on Tuesdays and Thursdays from 11:30 to 12:20. 1 hour. The course may be repeated for credit.

1a-B9b. Ensemble Playing.

MR. UNIACKE

The principles of ensemble playing approached through practice, with emphasis on accuracy in technic, intonation, rhythm and tone quality; practice in conducting from complete and condensed conductor's scores. Three hours of attendance weekly; one hour credit. The course may be repeated for credit. *A.*

D110. Church Music.**MR. CLOK**

The history and traditions of the various liturgical and non-liturgical church services of today; the best means of interpreting them. Registration limited to advanced students in organ and voice. Two lecture-laboratory periods per week. One hour credit. Second semester. *A*.

II. Individual Instruction (Special fees charged).

The student in applied music under individual instruction may be enrolled for credit toward the Bachelor of Arts degree only upon the written recommendation of the Chairman of the Examining Committee and the Head of the Department, and upon the subsequent favorable action of the Classification Committee. This recommendation is based upon the degree of ability and advancement shown in Proficiency Tests. In addition the work in applied music must be accompanied or preceded by Harmony A1. A second year or more of credit is possible when the applied course is accompanied or preceded by Harmony B5. A minimum of two half-hour lessons weekly is required for which two hours' credit is allowed. No college credit is given for work below "B" (Sophomore) grade. (As many Freshmen are able to pass the prerequisite tests allowing them to take "B" grade work, students of all classes are advised to confer with the Head of the Department regarding eligibility for credit.) Not more than 12 hours' credit in applied music may be counted toward the Bachelor of Arts degree unless the student is able to present a total of 8 hours of "D" (Senior) grade work in any subject. In this case 16 hours' credit may be allowed. Proficiency tests are required only of students desiring credit toward the Bachelor of Arts degree.

Voice**MR. LYMAN, MR. BABCOCK and MISS HAURY****Organ****MR. CLOK****Piano****MR. OLIVE and MR. TIPPIG****Violin and Ensemble****MR. UNIAC****Violoncello****MR. TIPPIG**

Lessons on other string or wind instruments may be arranged for privately through the office of the Music Department.

PHILOSOPHY**B21. Introduction to Logic.****MR. IREDEL**

A study of the elements of deductive and inductive reasoning with special emphasis upon the problems of definition, the nature and use of scientific hypotheses, probability, and deductive and inductive fallacies. Each semester. *VI*.

B23. Ethics.**MR. DENIN**

A study of the nature of morality, the problem of human freedom, the standard of judgment of right and wrong and of scale

and individual judgments on moral questions. An examination of conscience and reason. First semester. *V*.

120. The Philosophy of Art. MR. DENISON

A study of the nature of art, of its bases in human nature and its value as a means of interpretation of the universe together with an examination of the meaning of beauty. Second semester. *III*.

125a, C125b. History of Philosophy. MR. IREDELL

A study of the main currents of thought from the earliest Greek thinkers through modern philosophic thought. The course is designed to be a general and cultural introduction to philosophy through history. *VII*.

127. Introduction to Philosophy. MR. IREDELL

An introductory consideration of the meaning and method of philosophy, an examination of the thought problems which emerge in astronomy, geology, physics, biology and psychology and a review of some of the main philosophic estimates of life. Second semester. *V*.

128. Philosophy of History. MR. DENISON

An attempt to gain an idea of the nature of the historic process through the use of illustrative material, especially in the history of ideas and with particular reference to modern times. Second semester. *V*.

133. Philosophy of Evolution. MR. DENISON

A study of the nature of the evolutionary process, with examination of Darwin's idea of evolution, and later theories, in their scientific and metaphysical aspects, such as mechanism, teleology, creative evolution, and the place of man and value in the order. First semester. *VI*.

117. Theory of the Self in Contemporary Philosophy.

MR. IREDELL

A critical survey of contemporary views about the nature of the self, considering such problems as the definition of the term, the nature of self-knowledge, and the place of selves in reality. First semester. *I*.

122. Philosophy Since 1900. MR. DENISON

A study of contemporary philosophic thought through some of the main modern thinkers with special reference to the dominant ideas of the civilization of today. First semester. *IV*.

124. Philosophy of Religion. MR. DENISON

An examination of the human aspects and the metaphysical foundations of religion, the relation between scientific and re-

ligious conceptions of God, the world and immortality. Second semester. *III*.

D132. Philosophy of State and Law.

MR. DENISON

A philosophical study of the nature and function of the state and its basis in human nature, together with an examination of the philosophies of democracy, of the economic order of internationalism and of law. Background in Social Psychology, Sociology, Economics or Political Science required. Second semester. *IV*.

PHYSICAL EDUCATION

MEN AND WOMEN

A student may count toward graduation not more than one hour per semester in "sports" and "activities" during his Lower Division years, and not more than one-half-hour per semester during his Upper Division years.

C126. Health and Education.

MISS KELLER

A brief survey of the psychological basis for teaching health. Practical problems in leadership to establish interest and self-direction in health habits. Correlation of total health teaching program. First semester. 2 hours. *MW, III*.

C127. Playground Theory and Activities.

MR. HEATH

A study of the organization of the school and the public playground, the types of leadership, and types of games best suited for elementary use. A study of the more complex games, the organization of tournaments, and the arrangement of schedules. A study of school and public programs of play, and the construction of school and public play grounds. 2 hours. First semester, *WF, IX*.

C128. Nature and Function of Play.

MISS KELLER

The biological interpretation of play and the function of play in growth, development and social adjustment. Methods of leadership and organization of play activities to bring out moral habits, attitudes and judgments. Second semester. 2 hours. *MW, IX*.

C130a-C130b. Kinesiology.

MISS BIGELOW

Body structure considered in relation to problems of physical education; the mechanisms of joint movement and their application in selected activities. First semester. Class, S, 1; laboratory, *TTh, 1:15-4:10*. Second semester, *IV*.

D131. Theory and Application of Remedial Exercises.

MISS BIGELOW and MR. STREHE

Study and treatment of functional and structural abnormal

atomical conditions. Laboratory work including prescription of special exercises, methods of examination, and massage. Prerequisite: C130. First semester *MW, V*; and laboratory *A*. 3 hours.

33. History and Principles of Physical Education.

MR. NIXON

Limited to Seniors majoring in Physical Education. Second semester. *VIII*.

MEN

Students are assigned to courses in sports, gymnastics, or corrective exercises according to their needs as determined by physical examinations and physical efficiency tests. Complete freedom in the choice of activities is permitted only to men who maintain acceptable standards in health, physical development, and physical efficiency. Among the minimum requirements of the Department are good posture, ability to swim, elementary skill in self defense or gymnastics, and proficiency in such fundamental activities as running and jumping.

2a-A1b. Sports, Gymnastics or Corrective Exercises.

THE STAFF

Required, Freshman year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A*.

2a-A2b. Gymnastics Exercises.

MR. STREHLE

Required of Freshmen not taking military. $\frac{1}{2}$ hour. *A*.

2a. Hygiene.

MR. NIXON

Each semester. 2 hours. *TTh, VI*.

3a-B3b. Sports or Gymnastics.

THE STAFF

Required, Sophomore year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A*.

3a-B4b. Sports.

THE STAFF

Required of Sophomores not taking military. Sophomore year. $\frac{1}{2}$ hour. *A*.

C05a-C105b. Sports.

THE STAFF

Required, Junior year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A*.

C07a-C107b. Sports.

THE STAFF

Required, Senior year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A*.

D019a-D219b. Teaching of Physical Education Activities.

MR. HEATH, MR. STREHLE, and MR. MERRITT

This course is devoted mainly to methods in coaching and supervising athletics. 2 hours. *A*.

WOMEN

A medical and physical examination is given all entering students with subsequent posture tests. Physical activities are allowed or prescribed as the result of these examinations. During the Freshman and Sophomore years, two hours a week each semester fundamental activities are required. This requirement may be met by participation in Gymnastics, Dancing, Remedial or Games Stunts. Students may have freedom of election in sports in so far as medical and physical examinations warrant, but must include during the Freshman and Sophomore years one individual sport, team or group sport and one season of either clogging, folk, or natural dancing.

Up to June, 1931, the present four year program leading to the Special Secondary Credential in Physical Education will be continued. Thereafter, the four year program in Pomona College will not in itself lead to this Credential, but will form the basis for a post-graduate year either under Claremont Colleges, or elsewhere which should earn the Special Secondary Credential in Physical Education, or the General Secondary Credential with a major in Physical Education.

A5. General Hygiene.

MISS KELLEY

2 hours. Each semester. *TTh, VI.*

A11a-A11b. Gymnastics.

THE STATE

Required, Freshman year. $\frac{1}{2}$ hour. *MW, VII or XIII.*

A12a-A12b. Sports and Dancing.

THE STATE

Required, Freshman year. $\frac{1}{2}$ to 1 hour. *A.*

B13a-B13b. Gymnastics.

THE STATE

Required, Sophomore year. $\frac{1}{2}$ hour. *TTh, VIII or XIV.*

B14a-B14b. Sports and Dancing.

THE STATE

Required, Sophomore year. $\frac{1}{2}$ to 1 hour. *A.*

C115a-C115b. Sports and Dancing.

THE STATE

Required, Junior year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A.*

C117a-C117b. Sports and Dancing.

THE STATE

Required, Senior year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A.*

C119a-C119b. Methods in Coaching and Supervising Sports.

MISS KELLEY

1 hour. *F, XI.*

D219. Theory of Teaching Physical Education Activities.

MISS KELLEY

The special organization and technique of teaching physical education activities. First semester. 2 hours. *A.*

PHYSICS

a-A1b. Introduction to Physical Science.**MR. TILESTON, MR. HAUPT and MR. GARDNER**

A non-mathematical course intended for those who wish to obtain a knowledge of the fundamental facts, theories and applications of physics. The lectures will be illustrated by numerous experimental demonstrations and the subject will be developed from the basis of the electron structure of matter. *V*, and *Th*, *X*. Fee, \$5.00 each.

-B2b. General Physics. MR. TILESTON and MR. GARDNER

A study of the phenomena and laws of mechanics, wave motion, sound, heat, magnetism, electricity and light. This course is designed to furnish a working knowledge of the basic principles of physics and is planned especially for those students who expect to continue their technical studies in physics, chemistry, engineering or medicine. Prerequisite: Trigonometry. *I*.

-B4b. Physical Measurements.**MR. GARDNER**

Quantitative laboratory work in the subjects indicated in Course B2a-B2b. Must accompany B2a-B2b. *W* and *Th*, 1:15-4:15. 1 or 2 hours. Fee, \$3.00 each hour.

1a-C111b. Electricity and Magnetism.**MR. TILESTON**

A course in theoretical electricity and magnetism, a study of the fundamental laws underlying resistance, self and mutual inductance, and capacity in both direct and alternating current circuits. Prerequisite: Calculus and Physics B2a-B2b, B4a-B4b. 2 hours. *A*.

19a-D109b. Electrical Measurements.**MR. GARDNER**

Laboratory in electrical and electromagnetic measurements; including the calibration of electrical measuring instruments, measurement of magnetization, resistance, inductance and capacity. Opportunity will be given for work in pyrometry, photometry and thermionics. Prerequisite; Physics C111a-C111b preceding and accompanying this course. 1 or 2 hours. *A*. Fee, \$4.00 each hour.

3a, D113b. Analytic Mechanics.**MR. TAYLOR**

A study of force and motion with special reference to engineering problems and structures. Prerequisite: A knowledge of calculus. *VII*.

5a-D115b. Physical Optics.**MR. HAUPT**

The wave theory of light, diffraction, reflection and refraction, dispersion and polarization. Prerequisite: Physics B2, B4 and calculus. *A*.

7a-D117b. Optics Measurements.**MR. HAUPT**

Laboratory to accompany D115. 1 hour. *A*. Fee, \$4.00 each.

D120. Problems for Investigation.**MR. TILESTON and MR. HAU**

For majors in the department. May be repeated for credit. First semester. 1 to 3 hours. *A*. Fee, \$1.00 to \$8.00.

POLITICAL SCIENCE AND LAW**INTRODUCTORY COURSES****A1a, A1b. The Foundations of Government.****MR. ST**

The genesis and nature of political control; analysis of selected factors in the field of political control, especially of individual and group relationship to it. First semester. The fundamental problems which arise with the attempt to exercise political control, *e. g.*, formulation of policy, selection and control over leadership, development of governmental structure and machinery, etc. Second semester. Registration limited to lower division students. 2 hours. *WF, XI*, with third hour at the pleasure of the instructor. *A*.

B3a, B3b. Contemporary Governments.**MR. S**

Modern solutions to problems in the field of political control. The character, institutional forms, and political practice of principal contemporary foreign governments with special attention to English government. First semester. American government including a study of the principles and problems of American national, state and municipal polity. Second semester.

C101. Principles of Government.**MR. ST**

An examination of the current working hypotheses derived from man's experience in government; together with an attempt to discover the assumptions and premises which are the background of the principles examined. Registration limited to advanced students who have not had Political Science A1a. 2 hours. First semester. *VII*, with a third hour at the pleasure of the instructor.

ADVANCED COURSES

Seven or eight hours work in the introductory courses, listed above, or the consent of the instructor, is an absolute prerequisite for these courses.

C103. Municipal Problems.**MR. ST**

Survey of modern experience in the organization and administration of urban communities. Analysis and causal explanation applied to selected problems of American municipal government with special attention to conditions in California cities. First semester. *III*.

C104. Political Institutions.**MR. S**

Consideration of the more important institutions of popular government.

ernment and of the efforts to adapt them to increasingly complex conditions. Second semester. *VIII.*

05. Introduction to Law.

MR. G. S. BURGESS

The development of American law and legal institutions with some analysis of the rights and liabilities arising from the more common legal relationships. First semester. *IV.*

08. Problems of International Relations.

MR. SAIT

The formulation and control of foreign policy in a democracy; the treaty-making power; contemporary problems arising from competitive national interests including the control of economic imperialism; the "outlawry of war"; and international organization. First semester. *II.*

01. Public Opinion.

MR. STORY

The origin and nature of individual and group attitudes toward public policy; the scope and function of individual and group opinion in relation to public affairs; the modes and agencies affecting the formulation and expression of public opinion and available for making it effective in law and policy. Second semester. *III.*

02. Political Parties.

MR. SAIT

Analysis of the problem of getting candidates and policies accepted in large democratic communities with diversified social and economic interests. First semester. *VIII.*

1. Constitutional Law.

MR. G. S. BURGESS

An examination of the Constitution of the United States and the decisions of the Supreme Court upon questions arising thereunder. Second semester. *IV.*

8. International Law.

MR. SAIT

The nature, sources and development of international law; its function in the international community; the rights and duties of states; pacific and belligerent procedure for the protection of rights; the League of Nations and the Permanent Court of International Justice. Second semester. *II.*

THE READING PROGRAM IN POLITICAL SCIENCE¹

student concentrating in the Division of Social Science who

The first section of the program is offered to Juniors, the second to seniors. In each registration the departmental course or courses, if regularly carried by the student will appear on his registration card in parenthesis after the entry proper to the program, e.g., (C105, C108).

The opportunities of the program as a whole are offered only to students concentrating in the Division of Social Science who elect Political Science as the field of intensive study. A student concentrating in the Division who elects some other field for intensive study may arrange, on the recommendation of the department concerned, to complete one or more of the sections of the program as outlined above, and receive proportionate credit.

chooses Political Science as his field of intensive study will be expected to make the following reading program the dominant feature of his upper division work. It represents a possible two to four hours of credit in the department with an additional six hours contingent upon the completion of summer courses of reading. The amount of credit achieved by any particular student will depend upon an appraisal of his work made at the end of his Senior year.

A feature of this program — one that imparts organization and direction to the student's work as a whole — is its incorporation of advanced departmental courses as contributing elements; from five to six of such courses must be completed by each person registered for the program. It is also a feature of the program that a student who registers for it shall meet regularly in a group with the department faculty for reports, discussions, and the planning of further reading.

C151, C152. Reading in Political Science.

MR. G. S. BURGESS, MR. SAIT and MR. STONE

D251, D252. Reading in Political Science.

MR. G. S. BURGESS, MR. SAIT and MR. STONE

1. *Political Thought*: The great classics of Political Science from Plato's *Republic* to the significant works of contemporary writers.
2. *Governmental Institutions*: Three lines of reading chosen from the following to meet individual emphases:

- a. American Government.
- b. Foreign Governments.
- c. Comparative Municipal Government.
- d. International Political Institutions.
- e. Comparative Legal Institutions.
- f. Public Opinion.
- g. Public Administration.

3. *Political Biography*: The lives of great public leaders, with some emphasis upon those of the United States and Great Britain. "Works" and autobiographies will be included.

4. *Bibliography and Methods*: A survey of bibliographical sources in selected fields; methods of investigation including the technological contributions of history, law, sociology, psychology and statistics. 24-30 hours. A.

PSYCHOLOGY

B1 or B3 is prerequisite to all further courses in the department.

B1. Elements of Psychology. MR. EWER and MISS ELLIS

The fundamental facts and laws of the mind. Principles of sensation, perception, memory, thought, feeling, emotion, instinct and will. The relation of mental processes to the physical.

vous system and to action. Each semester. First semester, Mr. Ewer, *III*; Miss Eyre, *V*; second semester, Mr. Ewer, *VI*; Miss Eyre, *V*.

a-B3b. Elements of Psychology. MR. WILLIAMS

A more comprehensive course than B1, including classroom experiments and demonstration in addition to text book, reference books and lectures. *IV*.

Applications of Psychology. MR. WILLIAMS

A critical study of the fundamental principles underlying all applied psychology together with their application in various fields. Second semester, Mr. Williams, *III*.

06. Problems of Psychological Research. MR. EWER

The mysterious phenomena of the mind presented in the light of scientific psychology. The subjects considered include hypersthesia, automatisms, illusions and hallucinations, hypnotism, contemporary occultism and spiritualism. Second semester. *VII*.

07. Educational Psychology. MR. EWER

Practical applications of psychology to education. The inherited nature of the learner; principal features of the learning process; principles of educational discipline; methods of mental measurement. Each semester. First semester, *VIII*; second semester, *VII*.

6. Comparative and Genetic Psychology. MR. WILLIAMS

An intensive study of the methods used and the results obtained in the fields of animals and infant psychology. First semester. *VII*.

8. Experimental Psychology. MR. WILLIAMS

A laboratory course in psychology accompanied by lectures and discussions of the principles of scientific method used in psychological investigations. First semester. Class, *TTh, VIII*; laboratory, *W, 1:15-4:10*. Laboratory fee, \$2.00.

09. Advanced Psychology. MR. WILLIAMS

A study of the various systematic points of view in contemporary psychology, principally those of structuralism, functionalism, behaviorism and mentalism. Second semester, *V*.

12. Social Psychology. MR. EWER

Mental processes underlying social order and progress; the individual as the social unit; collective forms of behavior. First semester. *IV*.

15. Mental and Physical Growth. MISS EYRE

A study of the child's development, mentally, physically and morally. First semester. *IV*.

D217. The Nature and Measurement of Intelligence.**MR. WILLIAMS**

A study of the nature of intelligence and the principles and methods of intelligence testing with special emphasis upon the method of giving the Stanford Revision of the Binet Test. Second semester. *VIII*.

D224. Abnormal Psychology.**MISS EWER**

The principles which constitute the normal mind. Functional types of mental disorder, and their causes; measures for their recognition and prevention. Second semester. *VII*.

D240. Investigation of Psychological Problems.**MR. WILLIAMS and MR. EWER**

A study of certain psychological problems. The topics change from year to year. 2 hours. First semester, Mr. Williams; second semester, Mr. Ewer. *A*.

PUBLIC ADDRESS**A1a-A1b. English: An Introductory Course.****MR. SCOTT**

(In cooperation with the Department of English)

The fundamental principles of literary criticism and interpretation together with reading and study of specimens of the most important literary types; instruction and practice in writing and speech. 4 hours. Prerequisite for all other departmental courses. Men: *WF, III*; section meetings at *IV*; Women: *TTh, IV*, section meeting at *III*.

B32a-B32b. Public Address.**MR. SCOTT**

Exercises in voice development and platform deportment. Training in analysis of subjects, selection and arrangement of material, psychological adaptation of material and treatment of specific audiences. 2 hours. *MW, V*.

B33a-B33b. Principles of Reading.**MR. SCOTT**

Study of the technique of effective oral interpretation of literature. Application of this technique in the reading of a variety of selection of literary types. 2 hours. *TTh, VI*.

B35a, B35b. Argumentation and Debate.**MR. SCOTT**

Study of the principles of argumentation and practical application of these principles in class debates. Debate subjects for the year analyzed and debated. 2 hours. *A*.

C131a-C131b. Advanced Public Address.**MR. SCOTT**

Training in the construction and delivery of formal addresses. Prerequisite: Public Address B32 or equivalent. 2 hours. *WF, VII*.

34a, C134b. Reading of Dramatic Literature. MR. SCOTT

The intensive study of a limited number of standard plays, with emphasis on dramatic values in character and plot. Interpretative reading of these plays in class. Recital programs before the class. Prerequisite: Public Address B33 or equivalent. 2 hours. *TTh, VIII.*

RELIGION**. Orientation in Religion. MR. BROOKS**

A study of the influence of modern thought in the interpretation of religion and of the contribution of religion to civilization. 2 hours. Each semester. *VI.*

a, B3b. The Contribution of the Hebrews to Religion.**MR. BROOKS**

In the first semester, the development of religious ideas and practices among the Hebrews from the beginning of their history to the time of the Eighth Century Prophets. In the second semester, the contributions of the Great Prophets of Israel and Judah to ethics and religion. 2 hours. *TTh, VIII.*

Introduction to New Testament. MR. HAND

A careful study of such questions as date, authenticity, authorship, composition, integrity, purpose and contents of the documents which comprise the New Testament. First semester. 2 hours. *TTh, XII.*

5 The Teachings of Jesus. MR. HAND

Special emphasis is laid on Jesus' conception of the Kingdom of Heaven, his revelation of God and his doctrine concerning his own person and his claims on the fealty of men. Second semester, 2 hours. *TTh, XII.*

8 The Evolution of the English Version. MR. HAND

A study of the various texts and versions by which the Bible has come to be a literary possession of the English-speaking race. First semester. 2 hours. *TTh, XII. (Omitted in 1930-1931).*

8 The First Interpreters of Jesus. MR. HAND

A study of the teachings of Paul and the general epistles as they have modified and interpreted Christianity. Second semester. 2 hours. *TTh, XII. (Omitted in 1930-1931)*

C109a, C109b. The Religious World. MR. BROOKS

This course surveys the origin and growth of religious experience, the characteristics of a fully developed religion, the rise of modern religious ideas, and the place of religion in social reconstruction. *III.*

C125a, C125b. History of Religions.

A consideration of the nature of religion as exemplified in essential facts of early religions, followed by a somewhat detailed study of existing religious systems, Christian and non-Christian, their great personalities, their chief teachings and influences. (*Omitted in 1930-1931.*)

D201a, D201b. Problems of Religion.**MR. BROOKS**

Questions arising from the interrelations of religion with science and ethics. *V.*

(Note: For Philosophy of Religion, see Department of Philosophy, D124.)

SOCIOLOGY**B21a-B21b. Elements of Sociology.****MR. KIRK and MR. J. S. BURCH**

An introduction to the study of society. Designed to give the student an orientation in the social sciences and to develop a critical, comparative, and constructive attitude toward contemporary social problems. Application of sociological principles to modern social problems, such as race prejudice and movement of population, urbanization and neo-Malthusianism, marriage and divorce, poverty and crime, child welfare, leisure time activities. Four sections. *IV* and *VI.*

C125. The Control of Poverty.**MR. J. S. BURCH**

A scientific approach to the problem of dependency. Conditions of poverty and pauperism. The development of poor relief, outdoor relief, and the poorhouse. Special classes of dependents. The aged, the insane, the feeble-minded, the sick, drug addicts, the unemployed. Preventive agencies and methods. First semester. *VIII.*

C127. Criminology.**MR. KIRK**

The nature and evolution of crime; the organic and environmental causes of crime; an examination of criminal procedure. The historical development of the principles and methods of punishment. The new scientific approach to the treatment of delinquents in the courts and in penal institutions. Prevention of delinquencies through control of the causes. First semester. *V.*

C108. Labor Problems.**MR. KIRK**

A survey of labor problems and causes of industrial unrest, collective bargaining and trade unionism, child labor, scientific management, labor legislation, methods of promoting industrial peace, problems of reconstruction. Second semester. *V.*

28. Social Aspects of Child Welfare. MR. J. S. BURGESS

A general introduction to the problem of child care and protection outside the school. The conservation of life, health and physique. An analysis of the social situation, physical and mental condition and personality of the under-privileged child. Special problems: exceptional children, juvenile delinquency, dependent and neglected children, child welfare centers and the child welfare movement. Second semester. *VIII.*

31. Theories of Social Reform. MR. J. S. BURGESS

The cooperative movement in Great Britain and in the United States. The British Labor Party. Socialism and syndicalism in Europe and America. Sovietism and Bolshevism. Industrial and Social Progress. First semester. *III.*

32. The Family. MR. J. S. BURGESS

The evolution of the family. The family in its historical aspects; its functions and social status.

The modern family. Underlying social conditions affecting the family since the industrial revolution, economic, political, religious and legal; present trends and prospects. Second semester. *III.*

51. Advanced Studies in Sociology. MR. KIRK

Research in social problems and agencies. Various techniques which have been developed in sociological research will be used in making individual or group surveys for the purpose of demonstrating the relative merit, the special contribution and the definite limitations of the several tools of research. First semester. *A.*

52. Social Theory. MR. KIRK

An analysis of the facts and forces involved in the organization and modification of society with special emphasis upon isolation, social distance, conflict and accommodation.

A survey of the leading sociological theories, and an historical and analytical study of leading sociological thinkers as a basis for an understanding of society and its problems. Second semester. *A.*

SPANISH**Aa-A1b. Elementary. MR. CROWELL**

Essentials of grammar and pronunciation; readings from easy modern texts; writing from dictation; practice in speaking. *VII.*

Ba-B3b. Intermediate. Grammar Review and Modern Readings. MISS HUSSON, MR. CROWELL

A review of grammar with the translation of moderately difficult English into Spanish; conversation. Extensive reading of modern Spanish texts chosen to represent as many literary forms as

possible; a part of this reading is done as outside assignments. Spanish history, geography, culture, etc., are stressed in class discussions as far as time allows. Prerequisite: Spanish A1 or equivalent. Two sections. *V, XI.*

C103. The Novel of the Nineteenth Century. MISS HUSSON

Study of certain of the works of Fernán Caballero, Pedro d'Alarcón, Valera, Pereda, Galdós, Pardo-Bazán, Valdés, and Blasco Ibañez. Required of all majors in Spanish. First semester. *VIII.*

C104. The Theater of the Nineteenth Century. MISS HUSSON

Study of the works of such dramatists as Moratín, Martínez de la Rosa, Duque de Rivas, Gutiérrez, Hartzenbusch, Lopez de Ayala, Bretón de los Herreros, Tamayo y Baus, Echegaray, and others. Required of all majors in Spanish. Second semester. *VIII.*

C111a-C111b. Spanish Composition and Conversation.

MISS HUSSON

Intensive drill in written and oral expression; free composition; dictation; conversation, on assigned topics or extempore, with especial stress on the acquisition of a correct pronunciation and intonation, phonetics being used as an aid. This course is conducted, for the most part, in Spanish. *IV.*

D113a, D113b. Literature of the "Siglo de Oro."

MR. CROWLEY

In the first semester, the life and works of Cervantes, including an intensive study of the "Quijote"; followed, in the second semester, by a consideration of the dramatic writings of Lope de Vega, Tirso, Ruiz de Alarcón, and Calderón. Assigned outside readings and reports. Required of all persons concentrating in Spanish. *II.*

D117a, D117b. Survey of Spanish Literature. MR. CROWLEY

The development of Spanish literature from the earliest times to the present. In connection with readings and reports opportunity will be afforded each student to work up phases of the subject in which he finds himself deficient. Required of all persons concentrating in Spanish. *III.*

ZOOLOGY

B3a-B3b. The Human Body.

MR. GILCHRIST

A course in the structure and function of the human body. Students may enter the course either semester, but must attend both semesters for credit. Class periods, *MF, I*; laboratory, *Th, 1:15-4:10*. Laboratory fee, \$6.00 each.

11, B12. General Zoology.**MR. HILTON**

A general course which deals with the classification, general habits and distribution of animals. The first semester considers the invertebrates, in the second attention is given to the back-boned animals. Class, *TTh, II*; laboratory, *T* or *W*, 1:15-4:10. Laboratory fee, \$6.00 each.

110a, C110b. Functional Zoology.**MR. GILCHRIST**

A study of living animals, both in field and laboratory. The first semester deals with General and Comparative Physiology; the second semester considers problems of Experimental Zoology, such as heredity, development, regeneration of form. Prerequisites: College Biology or Zoology. Two hours. *A*.

118. Entomology.**MR. HILTON**

A general course in the structure and classification of insects. Each student makes his own collection for identification and study. Prerequisite: Zoology B11. Second semester. Class prerequisites: College Biology or Zoology. Two hours. *A*. Laboratory Fee, \$6.00.

113. Histology.**MR. HILTON**

The microscopic anatomy of the tissues and organs especially of vertebrates. Some attention is given to methods. Prerequisite: Zoology B3 or Zoology B11, B12. First semester. Class, *T, IV*. Laboratory by appointment. One class, two laboratory periods. Laboratory fee, \$8.00.

114. Neurology.**MR. HILTON**

A general consideration of the structure and functions of the nervous system and sense organs chiefly of vertebrates. Prerequisite: Zoology D113. Second semester. Class *T, IV*. Laboratory by appointment. One class, two laboratory periods. Laboratory fee, \$6.00.

117a, D117b. Embryology.**MR. GILCHRIST**

The first semester deals with maturation, fertilization and early development. The second semester is concerned with the formation of organs. Prerequisite: Zoology B3 or B11 and B12. Class, *A*; laboratory, *MW*, 1:15-4:10. Laboratory fee, \$8.00 each.

1131. Zoological Literature.**MR. HILTON**

Reviews of important contributions in all fields of recent Zoological literature. Open to Juniors and Seniors. Second semester. 1 hour. *F, I*.

1135. Zoological Problems.**MR. HILTON and MR. GILCHRIST**

This course is for undergraduates who are prepared to under-

take special work in general Zoology, Physiology, Entomology, Anatomy or Embryology. Such problems may be with locusts, insects or other animals or they may be of a general nature dealing with the life functions and structures. Either semester to 3 hours. *A.* May be repeated for credit. Laboratory fee \$2.00 per hour.

SUMMER SESSION

Although the main work of the Summer Session formerly conducted by Pomona College has been transferred to Claremont Colleges, Pomona College still maintains summer work at Laguna Beach and Bluff Lake.

The Department of Zoology conducts work at the Laguna Beach Marine Laboratory, Professor W. A. Hilton, Director.

At the Pomona College summer camp in the San Bernardino Mountains, Professor Taylor gives theoretical and practical work in field surveying.

ADMINISTRATION

PUBLIC ASSEMBLIES

It is the practice of the College to give opportunity for the consideration and expression of the common college interests.

On Monday, Wednesday and Friday at 9:30 a. m. a brief devotional chapel service is held.

On Tuesday of each week at 11:30 a. m. an assembly period is provided for the use of the Associated Students.

Approximately once each month during the college year a special convocation is called for the consideration of topics of general interest to the whole institution. Full attendance of both faculty and students is expected at these exercises.

The policy of the College is to urge the students to associate themselves for worship with the Claremont Church or those in neighboring communities. For this reason there is no regular appointment for College worship on Sunday, though many forms of religious activity are maintained in connection with the churches.

REPORTS ON SCHOLARSHIP

Once each week a report is called for from each instructor, in which he is asked to indicate such of his students as are doing failing work.

At or near the middle of each semester a report is made of all students doing failing or unsatisfactory work. This report is made with special care and refers to the average standing of the student in the half-semester preceding.

At the end of each semester a complete report is made on all students. This report becomes part of the student's record and indicates the semester's standing in the courses for which he has been registered.

PHYSICAL ATTENTION

The physical care of students is a matter of special concern to the College and the advantages of unusual attention and opportunity are offered. The climate of Southern California offers an out-of-

door life the year round. Supervision is given to athletics in all seasons. A regular physician is on the staff of Claremont Colleges, under whose direction every student on entering has physical examination. Regular work in physical education is prescribed throughout the four years, and courses in Physiology and Hygiene are given. The medical advice of the College physician is ordinarily available free of charge to all students subject to certain conditions of hours and location of residence; the College meeting these bills; provided that all nursing, surgical dressing, and medicines as well as medical service in chronic or protracted illness are at the expense of the ill or injured. *The College, however, reserves the right to discontinue this individual medical service at any time without previous notice.* As a natural result of this attention the health of the College is such as to give special assurance to all considering attendance at Pomona.

ATHLETICS. The direction and financial management of athletics rest with the Director of Athletics, who has associated with him as an advisory body the Athletics Council, composed of three members of the faculty and three students. Under the general manager there is a student manager for each sport.

Alumni Field, consisting of about ten acres, has been developed by the alumni into athletic grounds admirably equipped and unsurpassed in the Southwest in beauty of setting. First-class tennis courts, an excellent track, baseball and football fields, also hockey and basketball courts are within the limits of the campus, the courses of the Indian Hill Golf Club are available, and athletic exercises and field sports are encouraged by the officers of the institution.

A swimming pool, of the standard size for water polo, and fully equipped with modern appliances, is open to men.

Students are required to maintain a satisfactory standard of excellence in all their studies in order to represent the College in any of its athletic teams or other organizations coming before the public.

GENERAL REQUIREMENTS

Students are expected to be loyal to the spirit and purpose of the institution and to maintain regular attendance on all College appointments. Any student who falls below grade in scholarship, or who, for any reason, in the judgment of the faculty or its proper committees, is felt not to be a desirable member of the student body, may be dismissed without specific charges.

It is urgently pointed out to both students and parents that the value of a college education consists in no small degree in the fullest participation in the college atmosphere and life. It is important, therefore, that all absence through the college year should be avoided. Some of the most important of the college values are lost by absences on Saturday and Sunday, on which days are centered particular and vital phases of the common life, and it is therefore urged that over-Sunday visits at home or elsewhere be avoided.

LIVING CONDITIONS

GENERAL REGULATIONS

All rooms in the College residence halls are rented for the College year; bills are payable by the semester in advance.

The charge for rent does not include the use of the halls during the Christmas and Spring vacations, when the halls are closed. The residence halls are opened the Saturday before the opening of the College year and closed the second day after commencement.

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The College reserves the right to dismiss from a dormitory without rebate any student who becomes a disturbing or unsatisfactory occupant.

A deposit of \$10.00 is necessary to secure a room and should accompany the application for the room. This amount is retained as a breakage fee, from which deductions will be made for individual and communal damages to the building, the balance being returned at the end of the year. Rooms are assigned to students in order of application.

RESIDENCE FOR MEN

Beginning with the school year 1930-31, the College will be equipped with dormitory and dining hall facilities to accommodate all men students and it is expected that all men not actually living at home will live in the college dormitories and board in Fry the great dining hall for men.

Dormitory and dining room privileges are provided only for

basis of an inclusive yearly charge for both board and room, rate varying from \$400.00 to \$550.00 per year. This charge includes necessary furniture, rugs, bed linen and towels, laundering of the same and the care of rooms. The only articles to be furnished by the student are covers for a single bed.

SMILEY HALL has both single and double rooms and suites of two rooms accommodating two students.

ON THE ELI P. CLARK MEN'S CAMPUS, the hall for freshmen is provided with suites of two rooms—study and bedroom—each for two students. The other halls have both single rooms and suites.

RESIDENCE FOR WOMEN

It is assumed that, as far as possible, students will room at College residence halls and board at the College dining-rooms. Any other arrangement for room or board must have the approval of the Dean of Women. Lists of approved rooms for women are kept at the office of the Dean of Women. All rooms in the College residence halls are rented for the College year. Unless there is a written agreement to the contrary, it is assumed that rooms in private houses are rented for one semester. Change of rooms is made only by permission of the Dean.

HARWOOD COURT, the residence hall for women, in which is included the dormitory known as STRONG HALL, has both single and double rooms, as well as suites. Each room is provided with the necessary furnishings, including rug for the floor; the only articles to be furnished by the student are towels, linen, and covers for a single bed. For each individual the charge is ordinarily \$150.00 for the College year. In a few cases rooms are \$130.00 each, if occupied by two students; \$200.00 if occupied by one.

The cottages have double rooms, each student paying from \$10.00 to \$150.00 per year, according to the location of the cottage.

BOARD. Women occupying College residence halls or cottages are expected to board in the Women's dining-room, and

rooms are rented in these buildings only in conjunction with advance payment for board.

The charge for board is the lowest consistent with good quality of food and service. The rate for 1929-'30 was \$270.00. Arrangements may be made to pay by installment at a slightly higher rate than by the semester. All board bills are payable in advance.

Women wishing to board at other approved places than the Women's dining-room may do so by permission of the Dean of Women, except as specified above.

SUMMARY OF EXPENSES. The necessary expense for the College year, exclusive of fees for special courses and expenses which are purely personal, is about \$800.00.

BILLS. All College bills are due each semester in advance and must be paid by the student at the time of registration. No refunds are made to those leaving before the end of the semester except that in the case of those leaving before the middle of the semester because of illness one-half of the tuition and laboratory fees are refunded and in the case of those dropping out for good cause within a week of their registration all but \$25.00 is returned. No refund is made on a room payment unless the room is re-rented to someone not then rooming in a college residence hall.

Students are not given honorable dismissal nor graduated when bills are not paid. Seniors must settle all recognized bills by four p. m., of the fourth day preceding Commencement if they are to receive their diplomas with their class.

TUITION

GENERAL CHARGES

Regular tuition, including all general privileges, Music and Drama Course Ticket, Library privileges, etc., per semester	\$150.00
Tuition for students carrying less than twelve hours of work, or each such hour, per semester exclusive of above general privileges	12.50
Laboratory fees as stated after description of courses.	

CHARGES IN MUSIC

For those paying regular tuition:	
For one half-hour private lesson in music per week, per semester	\$ 45.00
For each half-hour private lesson in excess of one per week, per semester	40.00
For those carrying less than twelve hours of college work, exclusive of work in music:	
For one half-hour private lesson in music per week, per semester	60.00
For each half-hour private lesson in excess of one, per semester	40.00

Fees for Associated Students, per semester..... 5.00

This charge is made upon all regular students by action of the Associated Student Body. Recognizing the value of the activities supported by this fee, the College requires its payment and reserves the right to approve the budget for which it is spent.

FEES

Application fee, \$2.50.

Duation fee, \$10.00.

Laboratory fees range from \$2.00 to \$15.00. The exact fee for a given course is stated in connection with the description of that course under *Courses of Instruction*; in advanced courses only does it exceed \$10.00.

Visitor's fee of \$5.00 is required from those visiting a course of study and \$3.00 for each additional course.

BREAKAGE DEPOSITS

Microbiology and Plant Physiology, \$5.00 each.

Chemistry, \$10.00 for each course taken.

PRACTICE FEES

PIANO

One half-hour daily, per semester.....\$

One hour daily, per semester.....0

GRAND PIANO

One hour daily per semester.....9

GREAT ORGAN IN BRIDGES HALL

One hour weekly, per semester.....7

TWO-MANUAL PRACTICE ORGAN

One hour weekly, per semester.....3

PEDAL ORGAN

One hour daily, per semester.....9

VIOLIN, CELLO OR FLUTE

Room without piano, one hour daily, per semester.....1

Additional hours at same rate.

PRIZES, SCHOLARSHIPS AND STUDENT AID

Financial aid for students in Pomona College is available in different forms: Grants in aid, loans, departmental prizes, and scholarships.

Grants in aid and loans are administered by the Committee on Student Aid, which presents its recommendations to the President and Controller for confirmation.

Departmental prizes are administered by the respective departments, each of which reports its awards to the President of the College and the Secretary of the Faculty.

Scholarships in Pomona College are of three kinds: Departmental, General and Special.

All Departmental and General Scholarships are competitive; Special Scholarships are only partially competitive and are administered in special ways.

Each Departmental Scholarship is administered by the department concerned, which reports its award to the Committee on Scholarships.

All General Scholarships are administered by the Committee on Scholarships, which reports its awards, as well as all departmental awards, to the President of the College and the Secretary of the Faculty.

All announcements of prizes and scholarship awards are made by the President of the College.

PRIZES

The following prizes are offered for proficiency in the work of several departments:

ASTRONOMY

THE MONCRIEFF ASTRONOMY PRIZE: A prize given to the student in the first year course in Astronomy, taken regularly in class, whose interest in the study and proficiency in the observatory work are indicated by the best notebook kept in ac-

cordance with the teacher's suggestion. A prize of ten dollars is given by Miss Flossie C. Moncrieff, '11.

DEBATE

THE DOLE PRIZES: A prize debate upon some subject selected by the faculty is arranged for the close of the second semester. First and second prizes of fifteen and ten dollars, respectively, established by the late Mr. J. H. Dole, in memory of his brother, Mr. W. B. Dole, are endowed by Mr. J. Albert Dole and Mr. A. M. Dole.

DECLAMATION

THE KINNEY PRIZES: A prize declamation contest, open to the members of the Freshman class, occurs toward the end of the first semester. First and second prizes of fifteen and ten dollars, respectively, are endowed by Mrs. H. N. Kinney.

ECONOMICS

THE VAILE PRIZES: Prizes for the best essay or oration on the general subject of Agriculture in Southern California open to the Junior and Senior classes, were endowed by the late Mr. Charles S. Vaile. At present first and second prizes of fifteen and ten dollars respectively are given.

ENGLISH

THE JENNINGS PRIZES: Eight prizes awarded at the end of each semester to Freshmen taking English A1, to the two men and the two women showing the best mastery over written and oral expression and also two to the men and two to the women showing the most gain during each semester in these respects. The total amount of the prizes is \$600.00, the gift of Mr. Paul R. Jennings of San Diego.

GENERAL

THE RENA GURLEY ARCHIBALD HIGH SCHOLARSHIP PRIZE: A prize of fifty dollars to be awarded to that member of the graduating class taking the B.A. course and ranking highest in scholarship, established by the bequest of the late Reverend Andrew W. Archibald, D.D.

LATIN

THE MUDGE LATIN PRIZES: Prizes for excellence in Latin. First and second prizes of ten and five dollars, respectively, are endowed by friends of the College.

MATHEMATICS

THE LLEWELLYN BIXBY MATHEMATICS PRIZE: A prize for excellence

ellence in Analytic Geometry and Calculus; open to all students completing both Mathematics B13 and C115. A prize of ten dollars is given by Mr. Llewellyn Bixby.

MUSIC

THE BARBARA SANFORD ALLEN PRIZE: An annual competitive prize of fifty dollars to be awarded to a student of organ playing in the Department of Music. This award is made possible by the husband and parents of a graduate of the Class of 1915 of Pomona College.

PHYSIOLOGY

THE LORBEER PRIZES: Prizes for the best essay on the subject, "How to Keep Well"; open to all who take the course on "The Human Body." First and second prizes of fifteen and ten dollars, respectively, are given by Dr. Thomas L. Lorbeer, '03.

RELIGION

THE HAGER PRIZES: Prizes for the best essays on a foreign missionary subject, open to all students were endowed by the late Mr. and Mrs. C. R. Hager. At present three prizes of ten dollars each are given.

DEPARTMENTAL SCHOLARSHIPS

ART

THE HANNAH TEMPEST SCHOLARSHIP FUND OF \$5,000. Income to be divided equally between a man and a woman studying art, in accordance with conditions laid down by the donor, Mrs. Hannah Tempest Jenkins.

ENGLISH

THE STANLY COGHILL MEMORIAL SCHOLARSHIPS. Through the generosity of anonymous friends, two scholarships of \$300 each may be awarded at the close of each academic year to two men in the sophomore or junior classes who show excellence in English Literature.

MILITARY

Students who have completed the basic course in Military Science and Tactics (or its equivalent) are eligible for enrollment in the advanced course of the Reserve Officers' Training Corps. Students enrolling in the advanced course enter into an agreement to complete the two years' course and to attend a six weeks' summer training camp. In consideration of this agreement, students receive from the government cash allowances equivalent to scholarships of \$100.00 per year. All necessary expenses in connection with the summer camp, including transportation to and from the camp, are provided by the government.

The number of students admitted to the advanced course limited to about fifteen per year. Selection of students for enrollment is based upon excellence in military training and suitability for eventual appointment as second lieutenants in the Officers' Reserve Corps. Students who present evidence of above average records in military training in R.O.T.C. units of preparatory schools will be given consideration in the selection of those to whom these scholarships will be awarded.

MUSIC

THE KATE CONDIT BRIMHALL MEMORIAL MUSIC SCHOLARSHIP FUND, \$2,000. Given by the late Mr. and Mrs. A. P. Condit.

SPECIAL SCHOLARSHIPS

KAPPA DELTA HONOR SCHOLARSHIP ENDOWMENT OF \$1,485.15. Given by members of Kappa Delta Fraternity.

The income from this endowment is supplemented by individual pledges to yield a scholarship of \$250, administered under a special committee. Awarded to a man at the beginning of his senior year.

THE FLORA SANBORN PITZER MEMORIAL SCHOLARSHIP. \$500 a year from The Sanborn-Pitzer Foundation established by Russell K. Pitzer (Pomona 1900) in memory of his wife (Pomona 1901). Awarded to a student selected by the Foundation.

GENERAL SCHOLARSHIPS

Except as a donor may have given specific instructions to the contrary it is the practice of the Committee on Scholarships to make awards to candidates who indicate great promise in:

- (1) Qualities of manhood or womanhood, force of character and leadership.
- (2) Literary and scholastic abilities and attainments.
- (3) Physical vigor as shown by interest in outdoor sports, or in other ways.

The preferred applicant will excel in all three of the categories listed, but in the absence of such preferred combination the Committee may select an applicant who shows distinction in one of the first two over an applicant who shows a lower degree of promise and excellence in both. In any case interested parties

tion in activities which sustain physical well-being constitutes an essential qualification, though superior skills and excellence in other matters are not given undue weight.

All awards are made for a term of one year. Applicants must be over sixteen years of age; must satisfy all the prescribed conditions for admission to Pomona College; and in the case of freshmen must not previously have attended some other college or university. A freshman applicant shall be endorsed by the principal of the school from which he comes, and will be required to pass the College Board Examinations. Information concerning the time and place of these examinations may be secured from the principal of any secondary school. Applicants should request the College Board to send the grades received on such examinations to the Committee on Scholarships, Pomona College. The Committee on Scholarships reserves the privilege, in case of doubt, to require further, any special evidence, by examination or interview, as it may deem necessary to determine the candidate's fitness.

The following scholarships are available for the academic year 1930-31:

TWO SCHOLARSHIPS OF FIVE HUNDRED DOLLARS EACH. From the income of the Henry E. Storrs and Julia A. Storrs Foundation; open to men who are candidates for admission to Pomona College.

Applications for these scholarships should be made to the Committee on Scholarships before June 1st.

Public announcement of recipients of awards will be made on or before July 1st.

THE OLIVIA PHELPS STOKES SCHOLARSHIP FUND, \$47,000. Bequeathed by the late Olivia Eggleston Phelps Stokes of New York and Redlands, California. Fifteen awards of \$150 each are available each year on a semester basis, eight being awarded for the first semester and seven for the second semester.

Applications for these Scholarships should reach the Committee on Scholarships before May 1 for the first semester of the following academic year and before January 1 for the second semester of the current academic year.

FELLOWSHIPS

Fellowships offered by Pomona College are competitive and are under the administration of the Committee on Scholarships. The following award may be made in June 1931, if qualified applicants appear.

One WILLIAM LINCOLN HONNOLD FOUNDATION fellowship with a stipend of Fifteen Hundred Dollars; open to students who have done four full years of work in Pomona College, who are rated in the upper half of the graduating class, on the basis of their performance during both the junior and senior years, and who wish to continue their studies by advanced work either in Claremont Colleges or elsewhere in America or abroad.

The appointment will be for one year, but satisfactory work and conduct may earn a renewal, so that a really successful candidate may enjoy the fellowship for two or possibly three years while at the same time a new appointment may be made from the graduating class each successive year.

The prime purpose of the fellowship is to promote scholarship rather than merely to reward faithful classroom work. For this reason preference will be given to candidates preparing for scholarship rather than professional work, and the selection will be based not on scholarship only but on the possession of those personal qualities which indicate a high degree of promise in a student of outstanding character. The choice of the institution where graduate work is to be done is to be made in consultation between the candidate and the Committee on Scholarships, the committee having final authority. At the end of each year of tenure, the beneficiary of a Honnold fellowship is to make a full report to the Committee on Scholarships covering the character of his work, impressions of the institution in which he has been residing, his plans for the immediate future, and recommendations for the further development or improvement of this fellowship plan.

OTHER AWARDS

The Committee on Scholarships also nominates students of Pomona College who wish to apply as candidates for certain scholarships and fellowships awarded by other institutions and foundations. Those who seek nomination to the Rhodes scholarships should advise with the Committee on Scholarships; likewise those who wish to be considered in the award of the Scholarships of the summer session of the National University of Mexico. The awards in the latter case are made by the Educational Council of Claremont Colleges to competent applicants from the juniors, seniors, and alumni of Pomona and Scripps.

GRANTS IN AID

The income of certain funds is used towards paying the tuition of students who are in pecuniary need. Such aid is given only to students who are or intend to become candidates for a degree from Pomona College, who maintain a high standard of honor, who are economical in their habits, who are regular in their attendance upon college exercises, and who maintain, after the first semester of the Freshman year, at least "C" grade in their scholastic work.

The College aims to realize the ideal that no student worthy of graduation should withdraw ahead of time for purely financial reasons. To that end the Administration welcomes the opportunity to confer with students who need assistance.

Applicants for aid who have not yet entered College should forward to the Chairman of the Committee on Student Aid, a formal application accompanied by two letters, one from parent or guardian and the other from principal or teacher, giving information concerning need, character and attainments. They should also send a certified statement of their scholastic record. All applications for aid must be renewed annually on or before May first. Address Committee on Student Aid, Room 217 Sumner Hall.

Aid may be withdrawn at any time from students who prove not to have conformed to the conditions.

Recipients of grants in aid may be called upon to assist the College in ways that do not interfere with their studies.

STUDENT AID FUNDS

GENERAL

THE FRANCIS BANCROFT MEMORIAL FUND, \$1,500. Given by Mrs. James T. Ford of Los Angeles, California, in memory of her father.

THE BARROWS FUND OF \$2,500. Given by L. H. Barrows of Pasadena, California.

THE H. G. BILLINGS MEMORIAL FUND, \$1,000. Given by Mrs. E. A. Billings of Los Angeles, California, in memory of her husband.

THE BRISTOL MEMORIAL FUND, \$400. A fund raised as a memorial to the Reverend Sherlock Bristol.

THE BESSIE A. BROWN MEMORIAL FUND, \$1,000. Given by Mrs. Fannie E. Brown of Los Angeles, California, in memory of Bessie A. Brown.

THE HENRY HERBERT BROWN MEMORIAL FUND, \$1,000. Given by Mrs. Fannie E. Brown of Los Angeles, California, in memory of her son.

THE CLASS OF 1918 FUND OF \$961.78. Given by the Class of 1918.

THE CHARLES C. CRAGIN MEMORIAL FUND, \$5,025. Given by Mrs. Laura E. Cragin in memory of her husband, Rev. Charles C. Cragin.

THE AGNES K. CRAWFORD MEMORIAL FUND, \$1,000. Given by David R. Crawford and William Crawford, in memory of their mother.

EBELL CLUB OF POMONA STUDENT AID FUND, \$1,000.
To help, preferably, a girl.

THE ELWOOD FUND OF \$2,600. Given by Mary E. Elwood of Redlands, California.

THE FORD FUND OF \$2,500. Given by Rev. James T. Ford of Los Angeles, California.

THE FOWLER FUND OF \$1,000. Given by Mrs. Margaret Fowler of Pasadena, California.

THE MANETTE HAND MEMORIAL FUND OF \$1,500.

THE ALFRED JAMES HARWOOD MEMORIAL FUND, \$8,000. Given by Alfred P. Harwood of San Dimas, in memory of his son.

THE CHARLES E. HARWOOD FUND OF \$5,000. Given by Charles E. Harwood, LL.D., of Upland.

THE MARGARET BURTON HARWOOD MEMORIAL FUND, \$45,275. Given by Mr. Alfred P. Harwood and his three children, in memory of their mother.

THE THOMAS F. HOWARD "MEMORIAL SCHOLARSHIP FUND," \$2,000. Given by Dr. and Mrs. H. G. Brainerd of Los Angeles, California, in memory of Mrs. Brainerd's father.

THE KUNS FUND OF \$2,000. Given by Henry L. Kuns of La Verne.

THE LOOMIS FUND OF \$2,000. Given by Miss Jean Loomis, '97.

THE HOWARD J. MILLS MEMORIAL FUND OF \$3,000. Given by Mrs. Howard J. Mills of Los Angeles, California, in memory of her husband.

THE ONTARIO CONGREGATIONAL CHURCH FUND, \$186.50. Given by the Ontario Congregational Church towards the endowment of a fund.

THE PAGE FUND OF \$5,000. Given by Mrs. Loraine H. Page of Pomona, California. (Three thousand dollars of this may at some time be used for other purposes.)

THE ARTHUR WARREN PHELPS MEMORIAL FUND, \$2,000. Given by Mrs. C. S. Phelps and Mr. C. A. Phelps, in memory of their son and brother.

THE LYDIA PHELPS MEMORIAL FUND, \$4,000. Given by Hiram C. Phelps of Ontario, California, in memory of his wife.

THE PILGRIM CHURCH OF POMONA FUND, \$1,667.44. Given by the Pilgrim Congregational Church of Pomona.

THE PILGRIM CHURCH WOMEN'S AUXILIARY FUND, \$500. Given by the Women's Auxiliary of the Pilgrim Congregational Church of Pomona.

THE JOHN D. POTTER MEMORIAL FUND, \$2,000. Given by Mrs. J. T. Potter of Westboro, Massachusetts, in memory of her husband.

THE SEARING FUND OF \$1,800. Given by Dr. Anna H. Searing of Escondido, California.

THE WALTER O. SHATTO MEMORIAL FUND, \$4,000. Given by Mrs. Clara R. Shatto in memory of her husband.

THE CLYDE H. SHIELDS MEMORIAL FUND, \$1,200. Given by J. P. Shields of San Diego, in memory of his oldest son, who was drowned in 1894, when about twenty-one years of age.

"THE HENRY STRONG SCHOLARSHIPS" (three grants of \$250 each). Established by the Henry Strong Foundation under the provisions of the will of Henry Strong, late of Chicago Illinois, and Santa Barbara, California.

THE SWEET MEMORIAL FUND OF \$2,500. Given by Harlan P. Sweet in memory of his wife, C. Nell Sweet.

THE THATCHER FUND OF \$2,000. Given by Miss Susan E. Thatcher of San Diego.

THE WARDWELL FUND OF \$1,000. Given by Mrs. Maria T. Wardwell of Plymouth, Connecticut.

THE CLARA B. WATERMAN MEMORIAL FUND OF \$5,000. Given by Miss Rosa May Bennett of Los Angeles.

THE WEST FUND OF \$2,000. Given by Henry S. West of Los Angeles.

A GENERAL FUND OF \$38,545. Built up from the gifts of many friends.

SPECIAL

"CROMBIE ALLEN SCHOLARSHIP FUND" OF \$1,000, half of the income available annually to a graduate of *Chaffey Union High School* and half to a graduate of *Chaffey Junior College* of Ontario, California.

"ALICE PAUL HARWOOD SCHOLARSHIP FUND" OF \$5,000. Open to graduates of *Chaffey Union High School* of Ontario.

THE MABEL S. BRIDGES MEMORIAL FUND, \$3,500. Given by Mr. and Mrs. A. S. Bridges of San Diego, California, in memory of their daughter. Available for *women*.

"STELLA M. KING SCHOLARSHIP AND LOAN FUND FOR WOMEN." \$10,000.

THE FRANCIS M. PRICE FUND OF \$1,000. For *children of missionaries*.

THE MARTHA E. BERRY MEMORIAL FUND OF \$5,000. Given by Miss Elizabeth E. Berry. For *foreign* students.

LOAN FUNDS

The College also administers loan funds established by the bequest of Ellen H. Lyman and by George H. De Kay, Jr. in memory of his brother Frelin Campbell De Kay. By means of these funds, it is possible to co-operate in a moderate way, and temporarily, with the pressing needs of students.

THE RAY LOAN FUND made possible by the gift of \$1,000 by Mrs. E. F. Ray provides a means of meeting situations of temporary need.

For more substantial loans over a longer period, the College ministers the following funds on an interest bearing basis:

THE CAROLINE PHELPS STOKES FUND", \$25,000. Established by the will of Olivia Eggleston Phelps Stokes in memory of her sister.

A FUND OF \$5,000 from an anonymous friend.

THE HARMON FOUNDATION extends to four selected students its assistance by a loan for tuition.

All applications for loans should be addressed to the Committee on Student Aid, Room 217, Sumner Hall.

SELF SUPPORT

The Committee on Student Aid endeavors to find employment for students needing to earn a part of their expenses. Many are helping themselves by various forms of labor such as janitor work, waiting on tables at Frary Hall or at the Commons, general house work, gardening and the like. The most desirable positions are in general secured by upperclassmen who have proven themselves good workers and good students, and those coming to the College for the first time should be content if any work which they can satisfactorily do is secured for them. Students in any case should come prepared to pay all bills for at least one semester. Their record during this semester will be a large factor in deciding what opportunities for self-help will be open to them. Applications for aid in securing employment should be addressed to the Chairman of the Committee on Student Aid, Room 217, Sumner Hall.

CAMPUS ORGANIZATIONS

THE ASSOCIATED STUDENTS. This association coordinates all student activities. Its officers are chosen by the student body from their own number. All important questions are considered by its executive committee, which is composed of those prominent in such varied lines as athletics, oratory, and the editorship of the Student Life.

ASSOCIATED WOMEN STUDENTS. The women of the student body form a voluntary organization, electing their own officers and committees and holding regular meetings. This organization considers and promotes the special interests of the women.

CLASS ORGANIZATIONS. Each of the four college classes is organized for the purpose of promoting class social life.

DEPARTMENTAL ORGANIZATIONS. Astronomical Society; Circulo Espanol; Le Cercle Francais; Il Circolo Italiano; Historical Club; Mathematics Club.

HONOR SOCIETIES. Alpha Delta Mu,—Journalism Fraternity; Gamma Chapter, Alpha Kappa Delta,—Sociology Fraternity; Delta Sigma Rho,—Forensic Fraternity; Ghosts; Honorary Music Club; Mortar Board; Valkyries; Varsity Society.

LOCAL FRATERNITIES. Alpha Gamma Sigma; Kappa Delta; Kappa Theta Epsilon; Nu Alpha Phi; Phi Delta; Phi Kappa Alpha; Sigma Phi Alpha; Sigma Tau.

LITERARY SOCIETIES. Alpha Kappa; Delta Lambda; Delta Kappa Sigma; Scribblers.

MUSICAL ORGANIZATIONS. Men's Glee Club; Women's Glee Club; Little Symphony Orchestra; Band (R.O.T.C.).

RELIGIOUS ASSOCIATIONS. Young Men's Christian Association; Young Women's Christian Association.

MISCELLANEOUS ORGANIZATIONS. Cosmopolitan Club; Masquers,—Dramatics; Orchesis,—Dancing; Sigma Sigma Riding.

PUBLICATIONS

The stated publications of the College are issued as numbers of the *Pomona College Bulletin*, which is published bi-monthly. These include:

The *Annual Catalog*.

The *Register of Alumni*.

The *Report of the President* and special topical numbers.

Alumni and departmental publications are:

The *Pomona College Magazine*, devoted to the interests of the College and Alumni.

The *Journal of Entomology and Zoology*, published under the auspices of the Department of Zoology.

STUDENT PUBLICATIONS

The *Student Life* is published daily except Sunday and Monday for the student body and is devoted to current affairs.

Manuscript is a literary magazine issued four times a year.

The *Metate* is published each year by the Associated Students, and contains material appropriate to a college annual.

The *Hand Book*, which contains material designed especially for new students, is issued at the beginning of the year by the Associated Students.

SUMMARY OF STUDENTS—1929-1930

Compiled May 1, 1930

freshmen	181
sophomores	200
junior men	211
senior men	238
graduates	17
Total Enrolment Regular Session	847

In addition to the above, 36 Claremont Colleges students and Scripps College students are taking some work in Pomona College.

INDEX

- Administration, 34
 - Admission, 29
 - as Special Students, 31
 - Requirements for, 30
 - to Freshman Standing, 29
- Alumni Field, 12
- Art, 54
- Assemblies, Public, 93
- Associated Students, 112
- Associated Women Students, 112
- Astronomy, 54
- Athletics, 94
- Bachelor of Arts, 38
- Bills, 98
- Biology, 56
- Blanchard Park, 12
- Bluff Lake Camp, 14
- Board, 97
- Board of Trustees, 18
- Botany, 56
- Bridges Hall, 13
- Buildings and Equipment, 12
- Calendars, 4-5
- Campus Organizations, 112
- Chemistry, 57
 - Mason Hall of, 14
- Choice of Subjects, 39
- Christian Associations, 112
- Claremont Inn, 13
- Class Officers, 28
- College Entrance Examination
 - Board, 29
- Contents, 6
- Courses, Designation of, 53
- Courses of Instruction, 53
- Courses Required for Admission
 - to Freshman Standing, 29
- Credit Requirements, 38
- Crookshank Hall, 14
- Curriculum, 38, 53
 - Bachelor of Arts, 38
 - Honor Requirements, 38
 - Grades and Credits, 38
 - Choice of Subjects, 39
- Departmental
 - Organizations, 112
- Dormitories—
 - Men, 96
 - Women, 97
- Economics, 59
- Education, 61
- Election of Courses, 33
- Eli P. Clark Campus for Men,
- English, 62
- Examination, Entrance, 29
 - Medical, 29
- Expenses, Summary of, 98
- Extra Entrance Credits, 32
- Faculty, 19
 - Committees of, 28
- Fees, 99
- Fellowships, 106
- Frary Hall, 13
- French, 64
- General Requirements for
 - Graduation, 40
- General Information, 9
- General Requirements, 95
- Geology, 66
- German, 67
- Graphics, 72
- Greek, 67
- Grants in Aid, 107
- Gymnasium, 13
- Harwood Court, 13
- Harwood Hall, 14
- Historical Sketch, 9
- History, 68
- Holmes Hall, 12
- Honors, General, 34
- Honors Study, 34
- Hour Requirements, 38
- Italian, 70
- Laguna Beach Marine Laboratory, 14
- Latin, 70
- Lecture Foundations, 16
- Library, 12, 15
- Living Conditions, 96
- Method of Procedure in Honors
 - Study, 34
 - Administration, 34
 - Advisors, 36
 - Credit, 37
 - Examinations, 36
 - Graduation, 37
 - History, 34
 - Registration, 35

- Requirements for Candidacy, 4
- of Campus, 116
- ine Laboratory, 14
- ston Quadrangle, 12
- on Hall, 14
- hematics, 71
- riculation, 32
- rior Training Quarters, 14
- tary Science, 73
- ic, 74
- ic and Drama Course, 16
- ervatory, The Frank P
- rackett, 14
- a-Air Theater, 13
- sons Hall of Science, 14
- Beta Kappa, 17
- osophy, 76
- ical Attention, 93
- ical Education, 78
- ical Examination, 29
- ics, 81
- ical Science and Law, 82
- es, 101
- ram of Studies :
 - v. I - Fine Arts, 43
 - v. II - English, 44
 - v. III - Foreign Languages and Literatures, 45
 - v. IV - Biological Sciences, 46
 - v. V - Physical Sciences, 47
 - v. VI - Social Sciences, 48
- Div. VII - Philosophy, Psychology and Religion, 49
- Pre-Engineering Course, 50
- Pre-Medical Course, 51
- Prospective Teachers' Course, 52
- Psychology, 84
- Publications, 113
- Public Address, 86
- Public Assemblies, 93
- Registration, 32
- Religion, 87
- Rembrandt, 13
- Reports, 93
- Requirements for Admission, 30
- Residence Halls, 96
- Scholarships, 103
- Self-Support, 111
- Smiley, Hall, 13
- Sociology, 88
- Spanish, 89
- Special Students, Admission as, 31
- Strong Hall, 13
- Students, Summary of, 113
- Summary of Expenses, 98
- Summer Session, 92
- Sumner Hall, 12
- Swimming Pool, 14
- Teachers' Certificates, 52
- Trustees, 18
- Tuition, 99
- Zoology, 90
- Crookshank Hall of, 14

KEY

Permanent



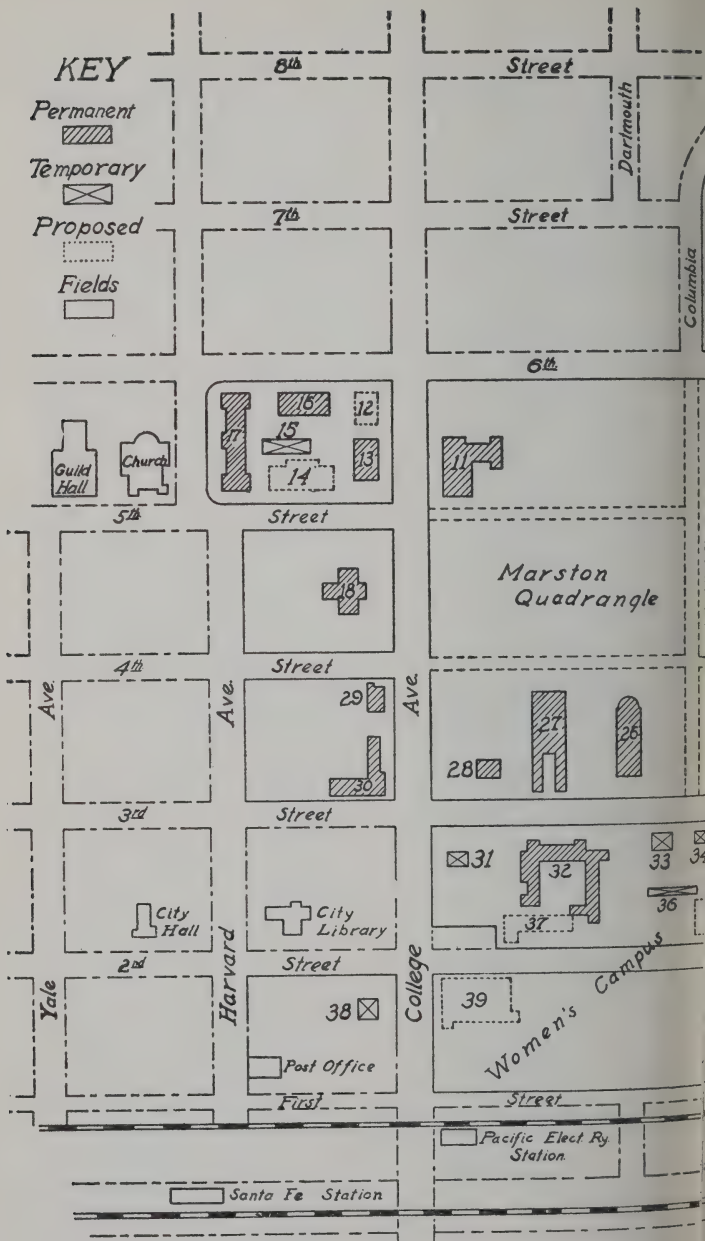
Temporary



Proposed



Fields



Index

PERMANENT

3. Men's Dormitory and Dining Hall:
Eli P. Clark and Frary Halls
5. Men's Dormitory
6. Tennis Courts
7. Alumni Athletic Fields
8. Training Quarters
9. Swimming Pool

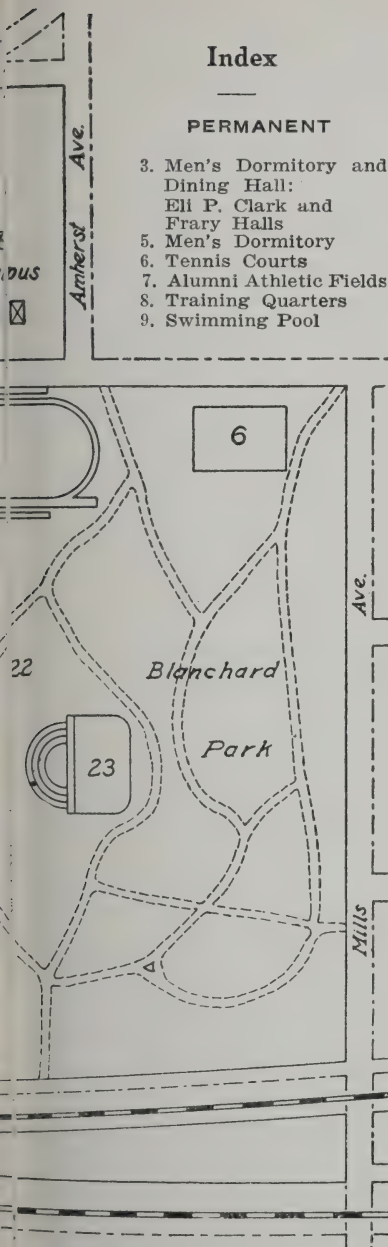
10. Smiley Hall:
Men's Dormitory
11. Holmes Hall:
Assembly Hall
Business Offices
13. Pearsons Hall
16. Crookshank Hall
17. Mason Hall
18. Library
22. Brackett Observatory
23. Greek Theater
24. Hockey Field
25. Tennis Court
26. Sumner Hall:
Offices—President;
Secretary; Alumni;
Publications
27. Bridges Hall
28. Rembrandt Hall
29. President's House
30. Claremont Inn and
Women's Commons
32. Harwood Court:
Women's Dormitory
40. Heating Plant

TEMPORARY

1. Garages
2. College Shops
15. Harwood Hall
20. Little Gymnasium
21. Big Gymnasium
31. Wilby House:
Women's Dormitory
33. Residence of Dean
of Women
34. Women's Building
36. Garages
38. Haddon Hall:
Women's Dormitory

PROPOSED

4. Men's Dormitory
12. Botany Building
14. Physics Building
19. Bridges Auditorium
35. Women's Dormitory
37. Women's Dining Hall
39. Women's Gymnasium



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Pomona College

Annual Catalog

1931-1932



Claremont • California

CORRESPONDENCE

Correspondence should be addressed as follows, the postoffice address being in every case Pomona College, Claremont, California:

Requests for catalogs, bulletins and general information, also
inquiries regarding Public Events and Lectures - -

- - - - SECRETARY OF THE FACULTY

Commission of Students - - COMMITTEE ON ADMISSIONS

Business Affairs - - - - - CONTROLLER

Student Affairs - - - DEAN OF THE COLLEGE
AND DEAN OF WOMEN

Applications for Faculty Appointments - - PRESIDENT

SECRETARY OF THE ALUMNI ASSOCIATION

POMONA COLLEGE BULLETIN

PUBLISHED BI-MONTHLY BY POMONA COLLEGE
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XXVIII

MARCH, 1931

No. 2

Forty-fourth Year

Pomona College

ANNUAL CATALOG

REGISTER OF OFFICERS AND
TEACHERS FOR THE YEAR
1931 - 1932, REQUIREMENTS
FOR ADMISSION, DESCRIPTION
OF COURSES AND GENERAL
INFORMATION

March, 1931

CLAREMONT · CALIFORNIA

Published by the College

1931

1932

JANUARY							JULY							JANUARY							JULY						
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11	12	13	14	15	16	17	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	19	20	21	22	
18	19	20	21	22	23	24	19	20	21	22	23	24	25	17	18	19	20	21	22	23	24	25	26	27	28	29	
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COLLEGE CALENDAR

1931

September	14, <i>Monday</i>	} Registration Days
September	15, <i>Tuesday</i>	
September	16, <i>Wednesday</i>	
September	17, <i>Thursday</i>	
September	18, <i>Friday</i>	Opening Convocation, 9:00 a. m.
September	18, <i>Friday</i>	First Semester Classes begin, 10:15 a. m.
October	14, <i>Wednesday</i>	Founders Day, Flame Ceremony, 10:00 a. m.
November	11, <i>Wednesday</i>	Armistice Day Musical and Military Ceremony, 11:00 a. m.
November	19, <i>Thursday</i>	Convocation — World Affairs — 10:00 a. m.
November	25, <i>Wednesday</i>	Thanksgiving Recess begins, 6:00 p. m.
November	30, <i>Monday</i>	Thanksgiving Recess ends, 8:00 a. m.
December	16, <i>Wednesday</i>	Christmas Music, 7:15 p. m.
December	18, <i>Friday</i>	Christmas Recess begins, 6:00 p.m.

1932

January	4, <i>Monday</i>	Christmas Recess ends, 8:00 a. m.
January	15, <i>Friday</i>	Convocation, 10:00 a. m.
January	30, <i>Saturday</i>	First Semester Ends
February	1, <i>Monday</i>	Registration Day for Underclass- men and Specials
February	2, <i>Tuesday</i>	Registration Day for Upperclass- men
February	3, <i>Wednesday</i>	Second Semester Classes begin, 8:00 a. m.
February	13, <i>Saturday</i>	Matriculation and Parents' Day Convocation, 11:00 a. m.
February	22, <i>Monday</i>	George Washington Convocation, 10:00 a. m.
March	15, <i>Tuesday</i>	Convocation—Research, 10:00 a. m.
April	1, <i>Friday</i>	Spring Recess begins, 6:00 p. m.
April	12, <i>Tuesday</i>	Spring Recess ends, 8:00 a. m.
April	19, <i>Tuesday</i>	Convocation, 10:00 a. m.
May	31, <i>Tuesday</i>	Memorial Convocation, 4:30 p. m.
June	13, <i>Monday</i>	Commencement

SUMMER VACATION

September	19, <i>Monday</i>	} Registration Days
September	20, <i>Tuesday</i>	
September	21, <i>Wednesday</i>	
September	23, <i>Friday</i>	
		Convocation 9:00 a. m.

CONTENTS

General Information	PA
Buildings and Equipment	
Library	
Lecture Foundations	
Board of Trustees	
Faculty	
Class Officers and Faculty Committees	
Admission	
General Requirements and Methods of Admission	
Admission to Freshman Standing	
Entrance Units	
Admission as Special Students	
Registration	
Matriculation	
Election of Courses	
Manual of Procedure in Honors Study	
History	
Administration	
Requirements for Candidacy	
Registration	
Advisers	
Credit	
Graduation	
Curriculum	
Degree of Bachelor of Arts	
Credit Requirements	

	PAGE
General Requirements for Graduation . . . :	37
The Program of Studies	38
Division I—Fine Arts	40
Division II—English	41
Division III—Foreign Languages and Literatures . .	42
Division IV—Biological Sciences	43
Division V—Physical Sciences	44
Division VI—Social Sciences	45
Division VII—Philosophy, Psychology and Religion .	46
A suggested Pre-Engineering Course	47
A suggested Pre-Medical Course	48
A suggested Course for Prospective Teachers . . .	49
Courses of Instruction	51
Administration	89
Living Conditions	91
Tuition	92
Campus Organizations	94
Phi Beta Kappa Society	95
Awards, Prizes, Scholarships and Student Aid . . .	96
Fellowships	100
Grants in Aid	101
Loan Funds	105
Self Support	106
Publications	106
Summary of Students	107
Index	108
Map	

DIRECTORY OF OFFICERS OF ADMINISTRATION

CHARLES K. EDMUNDS, Ph.D., President. 209 Sumner Hall.

WILLIAM E. NICHOLL, M.A., Dean of the College.
9 Holmes Hall.

JESSIE E. GIBSON, M.A., Dean of Women. 112 Sumner Hall.

ERNEST E. JONES, B.A., Treasurer. 3 Holmes Hall.

GEORGE S. SUMNER, Ph.D., Controller. 3 Holmes Hall.

GEORGE S. BURGESS, J.D., Secretary of the Faculty.
101 Sumner Hall.

WILLIAM MARTIN PROCTOR, Ph.D., Acting Director of Admission

CHARLES T. FITTS, M.A., Registrar. 9 Holmes Hall.

GERTRUDE PALMER CLEVERDON, B.A., Assistant to the President.
209 Sumner Hall.

EDNA PRESCOTT DAVIS, Director of Dormitories, Frary Hall.

MARY JUNE BURTON, B.A., Publicity Assistant, 212 Sumner Hall.

GENERAL INFORMATION

HISTORICAL SKETCH

Pomona College owes its inception to early settlers in Southern California whose previous affiliations led them to attempt the founding of a "Christian College of the New England type." Under the leadership of the Reverend Charles B. Sumner, a devoted and self-sacrificing group of fifteen were appointed members of the first Board of Trustees by the General Association of Congregational Churches of Southern California.

Besides the present President of the Board of Trustees, Mr. George W. Marston of San Diego, and the late Dr. Charles B. Sumner, who served as Secretary of the Board for thirty-eight years, the other original trustees were:

- Mr. Henry Kirke White Bent of Pasadena
- Mr. Nathan W. Blanchard of Santa Paula
- Judge Anson Brunson of Los Angeles
- Mr. Elwood Cooper of Santa Barbara
- Rev. James T. Ford of San Bernardino
- Rev. James H. Harwood, D.D. of San Diego
- Rev. D. D. Hill of Pasadena
- Rev. T. C. Hunt of Riverside
- Rev. J. K. McLean, D.D. of Oakland
- Mr. Henry A. Palmer of Oakland
- Mr. Seth Richards of Boston, Mass.
- Rev. Charles B. Sheldon of Pomona
- Mr. Andrew J. Wells of Long Beach

The College was incorporated October 14, 1887; and a site was selected about four miles north of the city of Pomona. But to meet the immediate needs a small private house was rented in Pomona, and in it the work of instruction was begun in September, 1888. In the following January an unfinished hotel in Claremont (now Sumner Hall), together with considerable land adjacent, was given to the college and the work was transferred to that place. It was originally supposed that this location would be temporary. Later this plan was abandoned and Claremont was made the permanent seat of the college. By this time, however, the name of "Pomona College" had become so definitely fixed that it has been retained notwithstanding the change of location.

The growth of the College has been swift and constant. The first class was graduated in 1894, at which time the total number of college students was forty-seven. The maximum number which can now be received is 750 divided equally between men and women and among the four classes, a limitation which compels the rejection of a large number of applications.

The imperative demand for expansion has led to the careful study of the ways in which the obvious advantages of the small college can be maintained while still making possible the gathering together of the equipment that is justified only in a large university. This study resulted in the adoption of the group plan of affiliated colleges. To this end "Claremont Colleges" was incorporated October 14, 1925, and the first of the new units known as Scripps College in honor of Miss Ellen Brownrigg Scripps, whose generosity and vision made it possible, was opened in September, 1927, as an affiliated but separate college.

From the very beginning, Pomona College has been the creation of sacrifice, affection and idealism. The College has been made possible by a great democracy of high-minded givers, and the character of these benefactors is reflected in the daily life and procedure of the College.

While the College was originally Congregational in organization, it long ago made itself the servant of a wider fellowship. The Board of Trustees is a self-perpetuating body, absolutely free from ecclesiastical control and representing different communities but pledged nevertheless, under the College Charter to maintain the institution as truly Christian, though unsectarian.

The College is pre-eminently a company of workers. From the very beginning it has maintained a reputation for interest in thorough scholarship rather than in large numbers. The procedures of the College are established in the purpose of appealing to students who appreciate the seriousness of the College opportunity. Only students who have finished their preparation with a high grade of promise are received. Membership in the institution itself is regarded as a scholastic honor.

The College holds that scholarship should not only be high but also broad and inclusive. Pomona College is not a professional school. It insists that the best preparation for life includes not only the ample, generous and complete training of the college course, such as is here given, but also at a later period a thorough and definite professional specialization. The College has been

ingularly successful in permeating its body of students with these ambitions, and the success of its graduates is due in no small degree to the fact that nearly seventy per cent of all who have graduated have taken subsequent professional training.

The College recognizes social training as an essential part of education. Its co-educational character greatly increases the culture of the student body in this respect. Working together on the highest levels of life, men and women are most likely to associate in mutual respect and dignity. It is the testimony of the graduates of this college that these relations add to the genuine wholeness and rounded worth of the student's life. While emphasizing social values and opportunities, the College, however, recognizes them as interests which must be held subordinate to the main business of study and work.

The proper determining purpose of the College is to help each student to secure for himself a correct correlation of the scientific method and the facts it discovers with the age-long spiritual aspirations and interpretations which constitute religion. In every field and in every scholastic exercise the student is encouraged to assimilate, digest and interpret for himself the facts observed or presented. The College does not ask its students to adopt any given set of religious interpretations of life but it does ask each student to seek an interpretation of his own guided by a critical study of those arrived at by others, past and present, as an indispensable part of his higher education. It thus seeks to resource the coming generation with a leadership of intellectual capacity, directed will and Christian character.

BUILDINGS AND EQUIPMENT

In addition to the grounds and buildings administered by Claremont Colleges in behalf of both Pomona and Scripps Colleges, Pomona College itself occupies about one hundred and twenty acres, of which sixty are included in Blanchard Park, about ten in Alumni Athletic Field, and fifty in the campus proper, centering in Marston Quadrangle.

There are nineteen buildings on the campus, heated from the central heating plant operated by Claremont Colleges.

The Mary L. Sumner Hall, named in memory of the wife of Rev. Charles B. Sumner, LL.D., one of the Founders of Pomona College, has been removed from its original site and remodeled for administrative and faculty uses.

Holmes Hall, a memorial of Cyrus W. Holmes, Jr., of Monson, Massachusetts, reconstructed in 1916 in conformity with modern plans for buildings and campus, is devoted mainly to chapel, recitation rooms, the Business Office, and the offices of the Registrar and the Dean of the College.

The Library, the gift of Mr. Andrew Carnegie, is an imposing structure, well adapted to the purposes for which it was built.

The Albert K. Smiley Hall, the first dormitory for men, accommodates sixty-five students and one instructor. It is completely furnished with all modern conveniences.

The Eli P. Clark Campus for Men includes: The Dormitory for Freshmen, which provides superior quarters for some 10 students besides the House Master and one or more instructors; two additional dormitories accommodating some 165 upper classmen; Frary Hall, the Dining Hall for Men, the gift of Mr. George W. Marston and others, named in memory of Rev. Lucien F. Frary, a member of the Board of Trustees from 1892 to 1900. Besides the Great Hall which will seat 450, there are three small dining rooms for the use of special groups as required.

Harwood Court, a modern and pleasing dormitory which includes Strong Hall, accommodates about one hundred and eighty women, including dining facilities.

The College also owns several cottages, in which similar accommodations can be secured. These facilities have been made possible by generous gifts from friends of the College.

The Claremont Inn has three large dining-rooms and accommodations for eighty guests.

Rembrandt Hall, the first section of the Art Building, is devoted chiefly to the work of the Department of Art. The upper floor contains studio and work rooms; the lower floor a convenient auditorium of moderate size for exhibits and assemblies.

The Mabel Shaw Bridges Hall of Music, the gift of Mr. and Mrs. Appleton S. Bridges, of San Diego offers excellent facilities for the study of music.

The Mabel Shaw Bridges Auditorium, under the auspices of Claremont Colleges, has a seating capacity of 2500 and is available for Pomona College events. It, too, was the gift of Mr. and Mrs. A. S. Bridges in memory of their daughter who attended Pomona College.

The Open-Air Theater, built to take advantage of the natural setting of Blanchard Park, though uncompleted, has at present a seating capacity of over 4000.

The Gymnasium, comprising two structures, affords simple equipment for indoor physical training supplementing the various playing fields for men and for women.

The Memorial Training Quarters stands as a remembrance of the Pomona College men who lost their lives in the Great War. It represents the gift of the parents of one of those men, Sheldon Gerry, '17, supplemented by those of alumni, students and friends. Alongside the Training Quarters is a modern standard size swimming pool for men.

Pearsons Hall of Science, the gift of Dr. D. K. Pearsons, contains the laboratories and lecture rooms of the departments of physics, psychology and mathematics.

The Frank P. Brackett Observatory, the gift of Mr. Llewellyn Bixby, '01, is designed to be of service to the student in the direct study of the stars.

The Harwood Hall of Botany, the gift of Mr. A. P. Harwood, contains lecture rooms and laboratories for the use of the Department of Botany.

The Mason Hall of Chemistry, the gift of Mr. W. S. Mason, provides ample facilities for the study of Chemistry.

The Crookshank Hall of Zoology, the gift of Mr. D. C. Crookshank, provides amply for the needs of the Department of Zoology.

The Marine Laboratory, located at Laguna Beach, has nine private rooms for special workers and two general laboratories, as well as storerooms, work rooms and aquarium room.

The Pomona College summer camp at Bluff Lake in the San Bernardino Mountains consists of five cabins, located on the tract of 120 acres given to Pomona College by Mr. J. S. Edwards. The camp, at an elevation of 7,500 feet, is in a region of great and unspoiled natural beauty.

The Medical Dispensary and the Infirmary operated by Claremont Colleges include the students of Pomona College in their service.

THE LIBRARY

The Library, of 72,200 books and 58,886 pamphlets, has been carefully selected, and is a working library of exceptional value.

The College possesses also the following library collections administered by the main library: The Cook-Baker Biological Library, the Parrish Botany Library, the James A. Lyman Mem-

orial Library of Chemistry, the Astronomical Library, the New England Collection, the Geology Library, the Mason Library of California and Western American History, the Viola Mirr Westergaard Art Collection, and the Carnegie Art Collection.

The main Library, the New England and the Mason California Libraries and the Westergaard and Carnegie Art Collections are housed in the Carnegie Library Building; the Cook-Baker Library and the Parrish Library in Crookshank Hall; the Astronomical Library in the F. P. Brackett Observatory; the James A. Lym Memorial Library and the Geology Library in Mason Hall of Chemistry.

The Library is a depository for the publications of the Carnegie Institution of Washington, and for the United States Government documents. It has a large and well selected list of the most valuable research and general periodicals, including many complete files.

The library of Claremont Colleges, comprising 7500 volumes (including the George Burton Adams Library of English History, the Paul Hensel Library of Philosophy, and the Nollen Library of German Literature) is available to all students and instructors.

The library of Scripps College, at present about 7000 volumes, is housed in the library building on the Scripps campus, and its resources are available on application to the Pomona College library authorities.

LECTURE FOUNDATIONS

THE JOSEPH H. JOHNSON FOUNDATION

The Joseph H. Johnson Foundation, liberally endowed by Mrs. Ellen B. Scripps, provides an annual income for the purpose of furnishing to the College for a protracted stay and intimate participation in college life notable educators from other institutions. By this means such educators are annually in residence in Pomona College. The opportunity of intimate contact with distinguished instructors thus afforded to undergraduates is a unique privilege, often surpassing the privileges of the classroom of the institution from which these educators come.

THE HENRY D. PORTER FOUNDATION

The Henry D. Porter Foundation, named in honor of the late Rev. Henry D. Porter, for many years a missionary in China, secures to the institution annually, the extended stay of some prominent worker in the field of Christian Missions. The lecturer

on this foundation commonly shares in the regular classroom work related to the history, geography, politics or religion of the region in which he has been actively at work. This vivid representation of the missionary life is one of the most stimulating features in the spiritual program of the College.

THE CLARK FOUNDATION

The Clark Foundation, established by Mr. Arthur O. Clark, makes it possible for the College to offer each year a lecture or course of lectures in the general field of religion.

MUSIC

In order to insure to the entire student body the opportunity of hearing and seeing the great artists of the day, whose public appearance is usually confined to the larger cities, the College co-operates with Scripps College and Claremont Colleges in the introduction each year of a group of the most distinguished masters in the field of music. For the concerts thus afforded an annual ticket is furnished to every student.

BOARD OF TRUSTEES

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 FRANK H. HARWOOD
 DELL A. SCHWEITZER
 CHARLES K. EDMUNDS, PH.D.
 ERNEST E. JONES
 GEORGE S. SUMNER, PH.D.

President
Vice-President
Vice-President
President of the College
Secretary and Treasurer
Controller

HONORARY TRUSTEES

CHARLES E. HARWOOD, LL.D.
 FREDERICK W. LYMAN
 The President of Claremont Colleges, *Ex Officio*
 The President of the Alumni Association, *Ex Officio*

Upland
Pasadena

Term of Office Expires June, 1931

JAMES S. EDWARDS
 WILLIAM B. HIMROD
 ARTHUR J. MCFADDEN
 RALPH J. REED
 JOHN W. SNYDER
 BUTLER A. WOODFORD

Redlands
Los Angeles
Santa Ana
Los Angeles
San Diego
Claremont

Term of Office Expires June, 1932

ARTHUR S. BENT
 GEORGE L. EASTMAN
 EDWIN F. HAHN
 SEELEY G. MUDD
 JOHN TREANOR
 RUDOLPH J. WIG

Los Angeles
Hollywood
Pasadena
Los Angeles
Los Angeles
Pasadena

Term of Office Expires June, 1933

SUSANNA BIXBY BRYANT
 ARTHUR M. DOLE
 CHARLES K. EDMUNDS, PH.D.
 WILLIAM S. MASON
 DELL A. SCHWEITZER
 JOSIAH SIBLEY, D.D.

Los Angeles
Pomona
Claremont
Evanston, Ill.
Los Angeles
Pasadena

Term of Office Expires June, 1934

LUTHER FREEMAN, D.D.
 EDWARD C. HARWOOD
 FRANK H. HARWOOD
 MARY MCLEAN OLNEY
 W. R. H. WELDON
 FRED M. WILCOX

Pomona
Pasadena
San Diego
Berkeley
South Pasadena
Lamanda Park

Term of Office Expires June, 1935

DONALD G. APLIN
 LLEWELLYN BIXBY
 C. STANLEY CHAPMAN
 JOHN M. CURRAN
 MARY CLARK EVERSOLE
 GEORGE W. MARSTON, LL.D.

Highland
Long Beach
Fulleon
Santa Barbara
La Canada
San Diego

FACULTY¹

HARLES KEYSER EDMUNDS

345 College Ave.

President, 1928.

B.A., Johns Hopkins University; Ph.D., Johns Hopkins University.

WIN CLARENCE NORTON

145 W. Seventh St.

Dean of the Faculty and Professor of the Greek Language and Literature on the Edwin Clarence Norton Foundation, Emeritus, 1888.

B.A., Amherst College; M.A., Amherst College and Yale University; Ph.D., Carleton College; D.D., Pacific Theological Seminary. Graduate Student, Johns Hopkins, Columbia and Oxford Universities.

RANK PARKHURST BRACKETT

270 E. Third St.

Professor of Astronomy on the Frank Parkhurst Brackett Foundation and Director of the Observatory, 1888.

B.A., Dartmouth College; M.A., Dartmouth College; Sc.D., Dartmouth College. Honorary Fellow, Clark University.

EBE ESTELLE SPALDING

261 W. Fifth St.

Professor of English Literature on the Phebe Estelle Spalding Foundation, Emeritus, 1889.

B.L., Carleton College; M.L., Carleton College; Ph.D., Boston University.

GEORGE GALE HITCHCOCK

721 College Ave.

Professor of Physics, Emeritus, 1892.

B.A., University of Nebraska. Graduate Student, Johns Hopkins and Cornell Universities.

RACE ELLA BERRY

353 W. Eleventh St.

Associate Professor of Mathematics, 1909.

Dean of Women, 1909-1927.

B.S., Mount Holyoke College; M.A., Mount Holyoke College.

ENDAL GARBUTT FRAMPTON

927 Harvard Ave.

Professor of the English Language, 1904.

B.A., Illinois College; M.A., Illinois College; M.A., Harvard University. Graduate Student, Harvard and Chicago Universities.

ILLIAM ATWOOD HILTON

1293 Dartmouth Ave.

Professor of Zoology on the Willard George Halstead Foundation, 1905.

B.S., Cornell University; Ph.D., Cornell University.

¹Arranged in order of appointment to present rank. The date in each case notes the beginning of original term of service.

BERNARD CAPEN EWER

706 Indian Hill Bld.

Professor of Psychology, 1916.

B.A., Brown University; M.A., Brown University; Ph.D., Harvard University.

RALPH HAINE LYMAN

357 W. Tenth

Professor of Applied Music, Head of Department of Music, 1917.

B.A., Grinnell College. Student in voice with Karleton Hackett, William B. Olds, Grant Hadley, Arthur Middleton, Courtland Cooper, Holm Cowper and other American masters and with Vittorino Moratti in Berlin.

MARO BEATH JONES

125 W. Eleventh

Professor of Romanic Languages, 1911.

B.A., Boston University; M.A., Boston University. Graduate Student, Universities of Chicago, Geneva and Barcelona. Student, Estudis Universitaris Catalans, Barcelona.

WILLIAM EVAN NICHOLL

465 W. Sixth

Dean of the College and Assistant Professor of Education, 1919.

B.A., Bellevue College; M.A., Columbia University. Graduate Student, Edinburgh University.

HOMER ELMER ROBBINS

487 Harrison Ave.

Professor of Classical History and Language, 1915.

B.A., University of Michigan; M.A., University of Michigan; Ph.D., University of Michigan. Graduate Student and holder of University and Buhl Classical Fellowships, University of Michigan.

ROBERT CHARLES DENISON

232 W. Fifth

Professor of Philosophy on the Robert C. Denison Foundation, 1920

B.A., Amherst College; B.D., Andover Theological Seminary; D.D., Amherst College.

RAYMOND CUMMINGS BROOKS

489 W. Sixth

Professor of Religion on the Nancy M. Lyon Foundation, 1921.

B.A., Tabor College; B.D., Yale Divinity School; D.D., Tabor College and Whitman College. Graduate Student, Oberlin College.

BRUCE McCULLEY

821 Dartmouth Ave.

Professor of English Literature, 1921.

B.A., Hiram College; M.A., University of Chicago; Ph.D., Harvard University.

WILLIAM KIRK

705 Indian Hill Bld.

Professor of Social Economics on the Henry Snyder Foundation, 1921

B.A., Johns Hopkins University; Ph.D., Johns Hopkins University.

WILLIAM POLK RUSSELL¹

506 E. Sixth

Professor of Mathematics on the Joseph W. Fiske Foundation, 1904

B.A., Cumberland University; M.A., Cumberland University. Graduate Student, Columbia, Harvard and Yale Universities.

¹Absent on leave, 1931-1932.

FACULTY

19

GEORGE SAMUEL BURGESS 154 E. Tenth St.
Professor of Law and Secretary of the Faculty, 1918.
 B.A., University of Michigan; J.D., University of Michigan.

IGENE WHITE NIXON 1034 Harvard Ave.
Professor of Physical Education for Men, 1916.
 B.A., Monmouth College. Graduate Student, Illinois, California and Columbia Universities.

ANK WESLEY PITMAN 116 E. Twelfth St.
Professor of History on the Warren Finney Day Memorial Foundation, 1924.
 Ph.B., Yale University; M.A., Yale University; Ph.D., Yale University.

LAND R. TILESTON² 1129 Dartmouth Ave.
Professor of Physics on the Seeley W. Mudd Foundation, 1925.
 B.A., Dartmouth College; M.A., Dartmouth College; D.Sc., Colorado College.

SSSELL McCULLOCH STORY¹ 127 W. Eighth St.
Professor of Political Science, 1925.
 B.A., Monmouth College; M.A., Harvard University; Ph.D., Harvard University.

CHARLES TABOR FITTS 826 Harvard Ave.
Registrar and Assistant Professor of English, 1919.
 B.A., Amherst College; M.A., University of California. Graduate Student, Harvard University.

LLIS HOLMES KERR 470 W. Seventh St.
Librarian, 1925.
 B.A., Bellevue College; M.A., Columbia University. Graduate Student, Edinburgh University.

ILIP ALEXANDER MUNZ¹ 1165 Indian Hill Blvd.
Professor of Botany on the Henry Kirke White Bent Foundation, 1917.
 B.A., University of Denver; M.A., University of Denver; Ph.D., Cornell University. Graduate Student, University of Chicago.

NNETH DUNCAN 1120 Harvard Ave.
Professor of Economics on the Stedman-Sumner Foundation, 1926.
 B.A., Wabash College; M.A., University of Wisconsin; Ph.D., University of Michigan.

ent on leave, 1931-1932.

ent on leave, second semester 1931-1932.

ALFRED OSWALD WOODFORD 443 W. Tenth St.

Professor of Geology, 1915.

B.A., Pomona College; Ph.D., University of California.

JESSIE EDITH GIBSON 246 Dartmouth Ave.

Dean of Women on the Martha N. Hathaway Foundation, 1927.

B.A., University of Idaho; M.A., University of Washington. Graduate Student, California and Columbia Universities.

CHARLES JUDSON ROBINSON 809 Indian Hill Blv.

Professor of Chemistry on the Carnegie Foundation, 1927.

B.S., Illinois Wesleyan University; Ph.D., Johns Hopkins University.

EDWARD TAYLOR 1022 Harvard Ave.

Professor of Engineering Mathematics, 1920.

C.E., University of Minnesota; M.A., University of Southern California. Graduate Student, University of Oregon.

EDWARD MCCHESENEY SAIT 238 E. Seventh St.

Professor of Political Science, 1928.

B.A., Toronto University; M.A., Toronto University; Ph.D., Columbia University.

D'ALARY FECHET 1030 Dartmouth Ave.

Professor of Military Science and Tactics, 1930.

Major, Infantry, U. S. Army. Graduate U. S. Military Academy; Student at Army War College.

CHESTER GEORGE JAEGER

Professor of Mathematics, 1931.

B.A., University of Missouri; Ph.D., University of Missouri.

ROBERT SIDNEY ELLIS

Professor of Psychology, 1931.

B.A., University of Arkansas; Ph.D., Clark University.

WILLIAM MARTIN PROCTOR

Acting Professor of Education and Acting Director of Admission 1931.

B.A., Whitman College; M.A., Stanford University; Ph.D., Stanford University.

WALTER ALFRED ALLEN 256 E. Second St.

Associate Professor of Musical Theory and Appreciation, and Instructor in Organ, 1912.

B.A., Beloit College; B.Mus., Yale University. Associate, American Guild of Organists.

VERETT SAMUEL OLIVE

136 W. Seventh St.

Associate Professor of Piano, 1923.

B.Mus., Simpson College. Graduate Student, Simpson College. Pupil of Moritz Mayer-Mahr and Mme. Teresa Carreno in Berlin.

ELLIOTT CURTIS LINCOLN

472 W. Tenth St.

Associate Professor of English Literature, 1924.

B.A., Colby College; M.A., State College of Washington and Harvard University.

ENJAMIN DAVID SCOTT

828 College Ave.

Associate Professor of Public Address, 1923.

B.A., University of Southern California; S.T.B., Boston University; Ph.D., Boston University. Graduate work, Boston, Brown and Harvard Universities.

JOSEPH WADDELL CLOKEY

Via Los Altos

Associate Professor of Organ, 1926.

B.A., Miami University. Graduate, Cincinnati Conservatory of Music.

LIZABETH KELLEY

860 Dartmouth Ave.

Associate Professor of Physical Education for Women, 1928.

B.A., University of Wisconsin; M.A., New York University.

WALTER TICKNOR WHITNEY

445 W. Tenth St.

Associate Professor of Astronomy, 1929.

B.S., M.S., Pomona College; Ph.D., University of Chicago.

JAMES WHITE CROWELL

1237 Dartmouth Ave.

Associate Professor of Spanish, 1929.

B.S., Haverford College; M.A., Haverford College; Ph.D., Cornell University.

JOHN STEWART BURGESS

736 College Ave.

Associate Professor of Sociology, 1930.

B.A., Princeton University; Ph.D., Columbia University.

ROBERT TRESILIAN BELCHER

452 W. Sixth St.

Assistant Professor of Mathematics and Engineering, Emeritus, 1907.

B.A., Queen's University. Graduate Student, Queen's College and University of California.

CLIFFORD NOTT HAND

1045 Yale Ave.

Assistant Professor of Religion and Editor of College Magazine, 1919.

B.L., Pomona College; B.D., Pacific School of Religion; M.A., University of Southern California. Graduate Student, University of California.

ALPH RAYMOND UNIACKE

160 W. Eleventh St.

Assistant Professor of Violin, 1923.

Pupil of Franz Milcke.

- REGINALD R. BACON 480 Alexander A.
Assistant Professor of Military Science and Tactics, 1927.
 B.S., Agricultural College of Utah. Captain, U. S. Army.
- WILLIAM HENRY COOKE 226 W. Eighth
Assistant Professor of History, 1927.
 B.A., Pomona College; M.A., Pomona College; Ph.D., Stanford University.
- FRANCIS GARRITT GILCHRIST 346 Harvard A.
Assistant Professor of Zoology, 1924.
 B.A., University of California; Ph.D., University of California.
- COLVIN HEATH¹ 270 W. Twelfth
Assistant Professor of Physical Education for Men, 1922.
 B.A., Pomona College. Graduate Student, Pomona College.
- ROBERT LOBINGIER STREHLE 1019 Dartmouth A.
Assistant Professor of Physical Education for Men, 1923.
 B.A., Pomona College. Graduate Student, Pomona College.
- FRANCIS RAYMOND IREDELL 120 E. Eleventh
Assistant Professor of Philosophy, 1925.
 B.A. Pomona College; M.A., Harvard University.
- MARY DIXEY BIGELOW Miramar and Mills Av.
Assistant Professor of Physical Education for Women, 1925.
 Graduate, Department of Hygiene, Wellesley College.
- ROSA FRIEDA BISSIRI 1035 Harvard A.
Assistant Professor of French, 1920.
 B.A., Kreuzlingen College, Switzerland.
- THOMAS MONTAGUE BEGGS 424 W. Tenth
Assistant Professor of Art, 1926.
 B.F.A., Yale University. Graduate, General Art Course at Pratt Institute.
- MARGARET HUSSON²
Assistant Professor of Spanish, 1925.
 B.A., University of Kansas; M.A., Columbia University.
- HAROLD DAVIS 248 W. Twelfth
Assistant Professor of English, 1927.
 B.A., Stanford University; B.A. and B.Litt., Oxford University.
- EMILIE ELIZABETH WAGNER
Assistant Professor of German, 1928.
 B.A., Smith College; M.A., Pennsylvania State College. Graduate Student, Columbia University, Middlebury College, Sorbonne, Université de Paris.

¹Absent on leave, second semester, 1931-1932.

²Absent on leave, 1931-1932.

WESLEY GLICK LEIGHTON

Assistant Professor of Chemistry, 1931.

B.A., Pomona College; M.A., Harvard University; Ph.D., Harvard University.

HERBERT EDWARD GRAY

Assistant Professor of Applied Music, 1931.

B.Mus., University of Nebraska; Pupil in voice of Adolph Engstrom, Evan Williams, and others; in cello of George Pierce, Bruno Steindel, and others.

MARION JEANETTE EWING

487 W. Sixth St.

Assistant Librarian, 1912.

B.A., Olivet College; B.S., Simmons College; M.A., Boston University.

CARL JAY MERRITT

Eli P. Clark Hall

Instructor in Physical Education, and Freshman Class Adviser, 1925.

B.A., Pomona College.

JAMES LORD HARRIS

Smiley Hall

Instructor in English, 1927.

B.A., Colgate University. Graduate student, Rochester Theological Seminary, Universities of Rochester, Redlands, and Southern California.

LATTIE C. MCCONNAUGHEY

260 E. Seventh St.

Library Cataloger, 1924.

B.A., Hillsdale College; B.Pd., Hillsdale College. Graduate Student.

MARY C. LOVE

466 W. Sixth St.

Head of Library Loan Department, 1929.

B.A., M.A., Stanford University.

LEON HOWARD

Instructor in English, 1930.

B.A., Birmingham-Southern College; M.A., University of Chicago; Ph.D., Johns Hopkins University.

CURTIS HAUPT

487 Harrison Ave.

Instructor in Physics, 1930.

B.A., Colorado College; M.A., University of California. Ph.D., University of California.

VIRGINIA PRINCEHOUSE

Instructor in Dramatics, 1930.

B.A., Pomona College; Graduate Student, School of Dramatics, Yale University. M.A., Claremont Colleges.

DA ELIZABETH COOPER

Instructor in Physical Education for Women, 1930.

B.S., University of Wisconsin.

ROBERT TROWBRIDGE ROSS

Instructor in Psychology, 1930.

B.S., California Institute of Technology; M.A., University of Southern California.

CHARLES LEO HITCHCOCK

Instructor in Botany, 1931.

B.A., Pomona College; M.A., Claremont Colleges; Graduate Student, Washington University.

LOUISE OTIS

Instructor in Chemistry, 1931.

B.A., Northwestern University; Ph.D., Northwestern University.

PATRICIA QUINTINA COGAN

Instructor in Spanish, 1931.

B.A., Colorado College; Graduate Student, University of Paris and Claremont Colleges.

LAURENCE J. DE RYCKE

Instructor in Economics, 1931.

B.B.A., University of Oregon; M.B.A., University of Oregon.

DEPARTMENTAL LECTURERS

AUBREY AUGUSTUS DOUGLASS

275 W. Tenth

*Lecturer in Education, 1926.**Professor of Education, Claremont Colleges.*

B.A., Kansas State Teachers College; M.A., Ph.D., Clark University.

HORACE JEREMIAH VOORHIS

San Dins

Lecturer in History, 1929.

B.A., Yale University; M.A., Claremont Colleges.

JESSE JOSEPH COLEMAN

870 N. Towne Ave., Pomona

Lecturer in Public School Music, 1927.

B.Mus., Chicago University. Pupil of Percy Rector Stephens and DeVincent Durgin Lash.

ALLEN SAUNDERS

*Lecturer in Political Science, 1931.**Associate Professor of Political Science, Scripps College.*

B.A., Amherst College; M.A., Ph.D., University of Wisconsin.

ASSISTANTS

DORIS EMILY CLAYTON

Assistant in Biology, 1931.

B.A., San Diego State College; Graduate Student, Claremont Colleges.

FACULTY

25

CALVIN MAY FITCH

Graduate Assistant in Physics, 1931.

B.A., Pomona College; Graduate Student, Claremont Colleges.

REWITT FAIRMAN HARRISS

Assistant in Geology, 1931.

B.A., Pomona College; Graduate Student, University of California.

PAUL STONER

Graduate Assistant in Physics, 1931.

NA ADELINE NELSON

Graduate Assistant in History, 1931.

B.A., University of Arizona; Graduate Student, Claremont Colleges.

CLASS OFFICERS AND FACULTY COMMITTEES

1931 - 1932

CLASS OFFICERS

GENERAL—Nicholl

SENIOR—Denison, Duncan

JUNIOR—Iredell, Woodford

SOPHOMORE—Fechet, Hilton

FRESHMAN—Nicholl, Gibson, Merritt

COMMITTEES

ACADEMIC PROCEDURE—Robinson, Gibson, G. S. Burgess, McCulley, Nicholl, Sait, Tileston.

ADMINISTRATION—Lyman, Nixon, Robinson, Robbins, Brackett.

ADMISSION—Proctor, Fitts, Nicholl, Gibson, Davis.

ATHLETIC COUNCIL—Nixon, Strehle, Lincoln, Nicholl and three student representatives.

ATHLETIC CONFERENCE—Woodford, Nicholl, Nixon.

CLASSIFICATION—Fitts, Berry, Whitney, Hilton, Ewer.

COLLEGE LIFE—Nicholl, Gibson, Duncan, J. Stewart Burgess, Merritt.
President and Vice-President Associated Students, consulting members on call.

CONVOCATION—Nicholl, G. S. Burgess, Lyman, Scott.

COURSES OF STUDY—McCulley, G. S. Burgess, Sait, Jaeger, Fitts.

ENGLISH—Davis, Iredell, Leighton, J. Stewart Burgess.

HEALTH—Nixon, Kelley, Nicholl, Gibson.

HONORS—Woodford, Robinson, Nixon, Pitman, Crowell, Coolidge.

LECTURES, PUBLIC EVENTS AND COMMENCEMENT—G. S. Burgess, Nicholl, Lyman, Davis, W. J. Howard.

LIBRARY—Duncan, Kerr, Ewing, Robbins, Hilton, G. S. Burgess.

PUBLICATIONS—Hand, G. S. Burgess, Lincoln, Harris, Cleverdon, Maple, Burton, Glen Turner.

RELIGIOUS INTERESTS INCLUDING CHAPEL—Brooks, Nicholl, Lyman.

ROOMS—G. S. Burgess, Taylor, Hilton.

SCHOLARSHIPS—Robinson, Iredell, Gibson, Nicholl.

STUDENT AID—Hand, Nicholl, Gibson, Cleverdon, Merritt.

ADMISSION

GENERAL REQUIREMENTS AND METHODS OF ADMISSION

It is the purpose of Pomona College to do a distinctly high grade of work, thus preparing its graduates for special achievement in whatever later callings they may choose. To this end candidates for admission to any class must present satisfactory evidence of their fitness for college, both in character and in scholarship. Testimonials of character and a letter of honorable dismissal from the last institution attended are required.

It is further advised that application be made as early as possible, inasmuch as the College cannot under present conditions guarantee the admission of more than two hundred to the freshman class, the trustees having limited the total attendance to seven hundred and fifty.

The College welcomes tentative applications from prospective freshmen several years in advance and is glad to offer suggestions from time to time regarding the best preparation for admission. In this respect the good offices of the College are freely at the service of all interested inquirers. Formal applications should be accompanied by a fee of two dollars and fifty cents. A medical examination conducted by an authorized physician, under the direction of the College, is required of all students.

An applicant for admission, immediately upon receipt of notification of acceptance, is required to make a deposit of twenty-five dollars on the tuition of the first semester.

ADMISSION TO FRESHMAN STANDING

Applicants are admitted to freshman standing in any one of three ways, as follows:

First: Examination by the College.

Second: Certificate of the College Entrance Examination Board.

Examinations are given by the College Entrance Examination Board at certain times and places, which may be learned from the Registrar or from principals of secondary schools.

Third: Certificate from approved schools or colleges.

Students from approved schools or colleges are admitted without examination on presentation of a certificate signed by the principal or proper official and showing in detail the requisite completed courses. Certificate blanks obtained from the prin-

cardinal should be filled out and returned as early as possible after the completion of the high school year.

ENTRANCE UNITS

Fifteen units of recommended work is the normal requirement for admission. In rare cases an applicant offering twelve recommended units, supplemented by special recommendations of principals and references and by scholastic aptitude tests of a quality indicative of ability to do college work with success, may be accepted.

A "unit" represents a course of study in one subject of high school grade involving five forty-five minute recitations per week or an equivalent for a school year. Laboratory periods should be at least twice the length of recitation periods.

Not less than one unit in any subject is normally accepted, though a half unit may be accepted when accompanied by units for courses in allied subjects.

ENTRANCE SUBJECT REQUIRED

English, 3 units

ENTRANCE SUBJECTS RECOMMENDED

Although English is the only subject specifically required, applicants will find it to their advantage to present the following part of the fifteen units required: at least 2 units of one foreign language; 1 unit each of history, algebra, geometry, and laboratory science; and 3 or more units of electives from the following subjects: English, foreign language, history, mathematics and laboratory science.

For advanced work in most fields, a reading knowledge of at least one modern foreign language is necessary, usually French or German. In some fields, a command of both is desirable. It is very much to the advantage of the student to acquire this reading knowledge before entering college. Students who are planning to do advanced work in the Physical Sciences or in Mathematics will do well to take both Trigonometry and Solid Geometry in High School if possible.

Those are matriculated to full standing who at the end of a semester's residence meet the requirements (see Matriculation); those who do not meet the requirements are not allowed to matriculate and are enrolled as in partial standing. No student in partial

standing is recommended to college standing in another institution. The final acceptance of entrance units is based upon the character of the work done in class at Pomona College as well as upon the grade of the units presented.

Students who have sufficient credit from other institutions are admitted to advanced standing on credentials signed by the proper officials and giving full specifications concerning the nature of the courses taken and the time spent in each, together with their rank in each subject. They are assigned hours and credits on the basis of their credentials, but such assignment is provisional until ratified by the Classification Committee. This ratification is not given until after the required semester's residence, at which time the Committee has power to act in adjusting hours or credits, or both, to the qualifications shown.

ADMISSION AS SPECIAL STUDENTS

Mature students, ordinarily only such as are at least twenty-one years of age, may be admitted as special students to courses for which, by ability and preparation, they may be fitted. This provision applies particularly to those equipped for advanced studies in special departments. The privilege of classification as special students is not open to those who seek admission to College in this way as a means of avoiding compliance with the entrance or collegiate requirements laid down for regular students. Special students are not candidates for a degree.

Credit, varying in amount with the individual courses, is granted for graduate work in approved High Schools.

REGISTRATION

All students are required to register on one of the regularly announced days of registration preceding the opening of the class work of each semester. A fee of two dollars is charged for later registration and a payment of one dollar for any change in the list of subjects chosen. This latter payment is remitted in the case of new students registering for the first time, provided the changes are made within a week of the opening day of the registration period.

Students are admitted to those courses only for which they are formally registered.

Students are not received later than the last day set for change of schedule.

MATRICULATION

Matriculation implies the meeting of all entrance requirements and the proven ability to carry college work. To this end the standing of all new students is provisional until after they have been in residence for one semester. At that time those are matriculated who have shown themselves in accord with the spirit of the College, who have done a satisfactory quality of work during the semester of residence and whose entrance units are acceptable.

Quality of work satisfactory for matriculation has been defined by the Faculty, thus:

"Matriculants must have carried the work of their first semester of residence without incurring any FF grades, and they must, if freshmen, have earned at least 12 credits, and if Sophomores or upperclassmen, at least as many credits as the number of hours for which they were registered. Students in any class carrying less than 12 hours must have made as many credits as the hours for which they were registered."

Students failing to matriculate at the end of the first semester of residence may be matriculated only after they have met all the requirements for two semesters.

Students are not candidates for a degree nor are they eligible for recommendation to college standing in another institution until they have matriculated. All students must be matriculated before attaining to Junior standing.

ELECTION OF COURSES

On or before the first Saturday in January after the Christmas recess, and the first Saturday in June, all resident students must fill out a schedule listing their choice of subjects for the following semester.

Changes from this schedule may be made upon the payment of a fee of one dollar. Failure to prepare such a schedule at the appointed time subjects the student to a fee of two dollars. Students may not elect less than twelve hours of work without the special permission of the Classification Committee.

MANUAL OF PROCEDURE IN HONORS STUDY

HISTORY

Prior to the academic year 1924-1925 Pomona College awarded honors at graduation on the basis of weighted grades. In the fall of 1924 a program of Reading for Honors in approved departments was added for a few students with special aptitudes, the work of such students culminating in final comprehensive examinations. Beginning with the academic year 1927-1928, honors based on grades alone ceased to be given, and a special arrangement of courses and other directed study was substituted, leading to the degree with honors. Beginning with September 1931 the rules and regulations set forth in this manual replace all previous procedure with respect to candidacy for the degree with honors.

ADMINISTRATION

The administration of the routine involved in attaining the degree of Bachelor of Arts with honors is vested in a standing committee of the faculty known as the Committee on Honors. This Committee alone has power to certify to the Registrar candidates for the degree with honors.

REQUIREMENTS FOR CANDIDACY

It is expected of a candidate for the degree with honors: (a) that he exercise initiative in his academic work; (b) that he put scholarship and curricular activities consistently first among his interests; (c) that he maintain a high standard of scholarship in the division of the curriculum in which lies his field of concentration, maintaining at the same time a satisfactory record in his other work; (d) that during vacations he pursue programs of reading and study; and (e) that he seek to attain a broad and thorough understanding of his field of concentration. Candidacy for the degree with honors may be continued only so long as the candidate maintains a quality of work and an attitude toward his study such as will justify recommendation for the degree with honors at graduation.

REGISTRATION

I. FRESHMAN-SOPHOMORE ASSOCIATES

A Freshman or Sophomore may associate himself with the honors program of the College by making a declaration of intention upon his registration card. This should be duly approved by his adviser or by the head of the department in which he plans to work. Freshman and Sophomore Associates may attend the regular autumn and spring gatherings and other group meetings of students who are candidates for honors.

II. REGISTRATION FOR GENERAL HONORS

At any time between the end of sophomore year and the beginning of senior year a student may become a candidate for the degree with honors. Ordinarily there will be concentration under the sponsorship of some department or division. In some cases the Committee will accept a *special program* which cuts across departmental, or even divisional, lines.

A student desiring to become a candidate for the degree with honors should obtain an application blank from the Registrar. The application, together with a plan of study, both approved by the student's department (unless a special program is planned), should be filed with the secretary of the Committee on Honors before final registration for the semester in which the student's Honors work is to begin. The application can be accepted only if the student has fulfilled his department's (or division's) requirements for candidacy. A list of these requirements can be obtained from the secretary of the Committee on Honors.

III. REGISTRATION FOR DEPARTMENTAL DISTINCTION

Each year a few students are accepted as candidates for the degree *with distinction in a particular department*. There are no requirements common to all departments, for each department lays out and administers its own program subject to the general oversight of the Faculty under the terms of this manual.

IV. SEMESTER REGISTRATION

Before final registration each semester, the candidate's candidacy must be approved (a) by his adviser, acting for the department of concentration, and (b) by the secretary of the Committee on Honors.

V. NUMBER OF CURRICULAR HOURS

A candidate for the degree with honors may graduate on the basis of a registration of 12 curricular hours per semester during the period he is registered as a candidate for honors.* Some departments insist upon this basis of registration; others, for most of their candidates, advise definite registration for fifteen hours. A candidate who has been accepted in some field of concentration may register for a minimum of 9 curricular hours with the approval of the department or the division concerned and of the committee.

In senior year a candidate for the degree with honors who seeks so the degree with distinction in a specific field may register for less than 9 curricular hours in view of special aptitudes. A thesis or its equivalent is required of such a student.

VI. WITHDRAWAL

A student registered for the degree with honors may withdraw from candidacy on favorable action by the Committee, and the committee itself may withdraw a student from candidacy, but in junior year the status of a candidate may be changed only by action of the Faculty. If, for any reason, a candidate leaves the honors status, the Committee, in consultation with the department or division concerned, certifies to the Registrar the credit which the student is entitled for the work done under its supervision.

ADVISERS

Each candidate at the time of his registration for the degree with honors is assigned an adviser recommended by the department, division or other sponsoring body, and accepted by the committee. Although a candidate proceeds on his own initiative he confers regularly with his adviser concerning all his work and particularly that not covered by formal courses in the College. The adviser is expected to keep himself informed as to the progress of the candidate. The candidate's registration card each semester must bear the adviser's signature.

EXAMINATIONS

Prior to his senior year each candidate for the degree with honors takes final examinations in courses outside of the department of his concentration; in Senior year such examinations may be omitted at the option of the instructor. From final course examination exclusive of Military Drill, Choir and required courses in Physical Education.

aminations in the department of his concentration he may be exempted at the discretion of the department concerned.

A candidate for the degree with honors may concentrate only under sponsorship which provides comprehensive examinations during senior year. The date of these examinations is determined by the sponsoring body which also sets the questions and conducts the examination, under the general supervision of the Committee on Honors. It is proposed through these examinations to take a measure of each candidate's abilities and to determine the quality and range of his scholarship and his insight as they are revealed in his grasp of the field of concentration. A copy of the paper set for each final comprehensive examination is filed with the Committee on Honors that it may review the paper and advise the examiners as to its adequacy in relation to the honors program.

A student who seeks departmental distinction takes in addition to the above comprehensives an oral examination conducted by a committee of at least three, one of whom is the candidate's adviser. The other members are appointed by the Committee in consultation with the department concerned, and one of the examiners is usually from some other institution. The purpose of this examination is to supplement the examinations previously taken, and it is therefore expected to cover the entire scope of the candidate's field of concentration.

CREDIT

At the end of a candidate's senior year the Committee, after consultation with the department or division concerned, certifies to the Registrar the credit to which the candidate is entitled for work done under its supervision.

GRADUATION

In the case of a candidate who qualifies for the degree with honors the Committee certifies to the Registrar the particular honor, *cum laude*, *magna cum laude* or *summa cum laude*, to be conferred upon him.

In the case of a candidate who qualifies for the degree with departmental distinction the Committee, on the recommendation of the department concerned, certifies to the Registrar the honor "with distinction in _____" (i.e. subject).

Both types of honors are announced upon the Commencement program and recorded upon the graduates' diplomas.

CURRICULUM

DEGREE OF BACHELOR OF ARTS

The courses of study offered lead to the degree of Bachelor of Arts under the following hour and credit requirements:

HOOR REQUIREMENTS

One hundred and twenty-six hours of work are required for graduation. An "hour" consists of one recitation or lecture period, or one laboratory period a week for one semester. A recitation or lecture period covers fifty minutes; a laboratory period covers, in general, the time of three such periods. In order to complete the course in four years one must take an average of fifteen hours of academic work per semester throughout the four years.

CREDIT REQUIREMENTS

In order to graduate a student must not only earn a certain number of hours, but also attain an average of at least C grade in those hours. To this end a certain number of credits is ascribed to each grade as a basis of determining average grade. The scale is so adjusted that the number of credits required for graduation coincides with the number of hours.

GRADES AND CREDITS

1. Grades, credits and marks are as follows:

<i>Grades and Marks</i>	<i>Credits per Semester Hour</i>
A	2 (excellent)
B	1½ (very good)
C	1 (good)
D	½ (passing)
F	0 (failure)
FF	0 (failure)

I (Incomplete)

W (Withdrawn with permission while work was of passing grade or better)

2. The F grade and the FF grade both indicate a failure. In the case of the F grade the failure incurred may be made up outside the class upon conditions laid down by the teacher, provided these conditions are met on or before the first day after the Spring vacation, if the failure is incurred in the first semester,* or on or before the first day of recitation of the next College year, if the failure is incurred in the second semester. An F grade made up thus may not be raised

*F or I grades incurred during the first semester of year courses, may be removed on the recommendation of the teacher concerned, by the successful completion of the work of the final semester.

above a D grade. An F grade not so made up remains permanently upon the records as a failure. A FF grade can be made only by taking the work over in class. Where the FF or permanent F is incurred in required work, that work must be repeated when next offered. A student may not continue with work in which he has received a FF. The making up of work which has received an F or FF grade does not expunge the grade from the record. It does not permit credit and "credits" for the course.

All F and FF grades reported by teachers are accompanied with a specific statement in writing of the cause for the failure and a detailed statement in case of the F grade of the work necessary for its removal. A copy of this statement is mailed to students.

3. The I mark is given where illness on the part of a student justifies the granting to him of additional time for the completion of his work. It may be changed upon the same conditions as the I laid down for the making up of the F grade, with this exception, that other than a D grade may be thus earned.* Teachers wishing to give an I grade for other justifiable cause than illness must first receive permission to do so from the Classification Committee.

4. The mark W is used where a student has withdrawn from a course with the permission of the Registrar's office, provided, however, that the student was not reported as below D in the subject in the scholarship report preceding his withdrawal. If the student was so reported, the grade of the report is entered upon the records and is subject to the conditions stated for F and FF grades. Withdrawal from any course within a month of the examination period is not permitted save by special action of the Classification Committee, and even with that permission involves a failure in the course.

CHOICE OF SUBJECTS

In the selection of his work the student is given a large range. The only limitations are such as will insure to him, on the one hand, the breadth of view which may be gained by an introductory study of each of the great realms of knowledge; and, on the other, that concentration along some chosen line of work which shall develop power of thought and an actual fund of knowledge in some particular field. To this end the following general requirements for graduation have been approved.

*See foot-note on preceding page.

GENERAL REQUIREMENTS FOR GRADUATION

I. FOR THE LOWER DIVISION

Four hours of Physical Education (Activities).

Note: For two of these hours work in Military Science may be substituted.

At least one course (two semesters) in each of five of the following divisions (I-VII), no one of the groups (A,B,C) to be passed over.

Group A.

Division I. Art; Music (Theory and Appreciation).

II. English; Public Address.

III. French; Italian; Spanish; German; Greek; Latin.

Group B.

Division IV. Biology; Botany; Zoology.

V. Mathematics; Chemistry; Physics; Astronomy; Geology.

Group C.

Division VI. Economics; Education; History; Political Science and Law; Sociology.

VII. Philosophy; Psychology; Religion.

Courses at student's choice in any of the above named departments, in Military Science, Hygiene (Physical Education A5); enough to make up a sum total of 64 hours.

II. FOR THE UPPER DIVISION¹

Two hours of Physical Education (Activities).

Sixty other hours, election subject to the following principles of distribution:

a. Each student shall complete during each semester of his Junior year at least one course (not less than 2 hours) in each of three of the following nine departmental groups:

I to VII, as above.

VIII, Physical Education.

IX, Military Science.

b. Each student shall complete for graduation not less than 36 hours of C and D work.

These General Requirements are designed to protect the student against gross errors in shaping his collegiate program, especially

¹Prior to graduation, all students are required by the laws of the State of California to pass a course or an examination on the Constitution of the United States. This requirement may be met by Political Science B3b, or D 111.

38 GENERAL REQUIREMENTS FOR GRADUATION

during the Lower Division years; they intentionally leave him great deal of freedom to shape his course of study according to his interest. In the exercise of this freedom it will be the part of wisdom for him to take advantage of the working organization of the curricular program into sequences of courses, departments and divisions, looking upon these things as aids of which he, as student, may avail himself in the process of securing an education. Courses, etc., are, however, merely aids toward, not substitutes for, reading, reflection and independent study.

In the evaluation of all academic exercises the quality of English used by the student will be weighed together with the soundness and completeness of his thinking. Before any student is accepted into upper division standing he must satisfy a committee of the college of his ability habitually to use English of good quality. A student whose English is persistently slovenly or unacceptable may therefore be withdrawn from candidacy for a degree at the next ensuing commencement if his deficiency recurs as late as the middle of the senior year.

Responsibility for raising the level of a student's habitual use of English lies solely with himself, inasmuch as it is not the policy of the college generally to undertake the teaching of basic secondary school subjects. Moreover, since no specific course or courses in English are now required for graduation, students who have weakness in expressing themselves in their mother tongue should bear in mind the value of certain important courses offered by the Department of English.

THE PROGRAM OF STUDIES

To each student the College strongly recommends the shaping of a program of studies that will mean (1) by the end of the Sophomore year, an intelligent orientation in as many as five of the great fields of learning corresponding to the "divisions" (I-VII) of the preceding statement of Requirements for Graduation, and (2) during the Junior and Senior years, a relative concentration of effort in some one of those fields, such a concentration as is needful for the effective organization of one's Collegiate program as a whole.

CONCENTRATION IN SPECIAL FIELDS

For the guidance of the student who wishes to work out a program of concentration in a particular field certain principles and methods of procedure have become established:

1. Lower Division Preparation: There must be sufficient Lower Division (A and B) work in the special field and in allied fields to ensure adequate preparation for carrying successfully the Upper Division work aimed at.

2. Upper Division Requirement: Not less than eighteen hours of Upper Division (C and D) work in the field of concentration; six of these eighteen hours must be of D rank, and six of them must be taken during the Senior year.

3. Foreign Language: For advanced work in most fields a reading knowledge of at least one modern foreign language is necessary—usually French or German; in some fields a command of both is most desirable. It is very much to the advantage of the student to acquire this reading knowledge before entering college.

4. Comprehensive Examination: In most divisions of the College the student's program of concentration culminates in a final "comprehensive examination" covering the entire field in which his concentration lies.

5. Adviser: That member of the faculty in whose field a student is working intensively becomes the student's official adviser during his Junior and Senior years. It will be well for the student to consult his prospective adviser even earlier in his course.

The application of these ideas involves to such a degree a recognition of differences between fields of learning and between the individualities of students that no summary statement of them could be thought of as complete. The attention of those interested in special fields is therefore directed to the following more extended presentations of the work of the respective divisions. In addition, certain pre-professional courses are also presented in outline for the benefit of students who look toward teaching, engineering, or medicine.

Most of the statements made in connection with concentration should be read as suggestions rather than as rigid regulations; the degree of emphasis attached to each such suggestion will be determined for the student by his adviser.

THE PROGRAM OF STUDIES

DIVISION I — FINE ARTS

(DEPARTMENTS OF ART AND MUSIC)

Courses in the history, appreciation, and theory of art and music are offered by the College as contributions to personal culture, and receive credit toward the Bachelor of Arts degree on the same basis as other academic courses. In the fields of applied music and art technical proficiency is aimed at, with the idea, first, of developing an appreciative taste, and second, of stimulating creative ideas worthy of expression.

APPLIED ART WORK: This is divided into two branches to meet the student's preference for Drawing and Painting, which look toward Fine Arts endeavors, or for Design and Crafts, which relate to the Industrial Arts and the home. In recognition of the interdependence of Design and Drawing as the basis of all art training, the fundamental courses in both subjects should be pursued early in the college course. Theory courses must be included with advanced work in either branch of Applied Art study.

The student will be expected to present his work in the departmental Exhibition at the end of each year. Upon the completion of the third year of study the student will be expected to give a separate exhibition of his work of that year.

APPLIED MUSIC: The student may take music as a subject of concentration in his course leading to the Bachelor of Arts degree. In addition to this it is possible to meet the requirements of the State Board of Education for the Special Credential in Music, which enables those recommended by the College to teach music in the public elementary and secondary schools of the State of California. The student, whether concentrating in music or working toward the music credential should take the beginning harmony and sight singing courses in his first year; otherwise he may have difficulty in completing the requisite courses in four years.

Each candidate for the Special Credential in Music must give a satisfactory public recital in his major subject in Applied Music. Other requirements are varied according to the type of credential (General Public School Music, Voice, Piano, Organ, Violin, or Special Instruments) which is desired by the candidate. Complete information as to these requirements may be obtained from the Department of Music.

The student in applied music will be enrolled for credit toward the Bachelor of Arts degree upon the written recommendation of the Head of the Department of Music. This recommendation is based upon a system of proficiency tests given before an examining committee of the music faculty. In addition, the work in applied music must be accompanied or preceded by first year harmony or Sight Singing to receive credit. A second year or more of credit is possible when the applied music course is accompanied or preceded by second year harmony or Advanced Dictation. A minimum of two half-hour lessons weekly is required. Proficiency tests are required only of students desiring credit toward the Bachelor of Arts degree.

DIVISION II—ENGLISH

(DEPARTMENTS OF ENGLISH AND PUBLIC ADDRESS)

PREREQUISITES for undertaking concentration in English in Upper Division:

1. Foreign Language: High School Latin,—not less than two years; a reading knowledge of French (or German).
2. Proficiency in the use of English, whether oral or written; a measurable mastery of the fundamental principles of literary criticism and interpretation.
3. An intelligent acquaintance with the books of Reading List I.

THE MEASURE OF ACHIEVEMENT set up as a standard:

1. A general knowledge of the subject *Literature*, with particular attention to major figures in the English field, such as Chaucer, Spenser, Shakespeare and Milton, and a somewhat specialized knowledge of the English and American literature of the last two hundred years.
2. a. A general knowledge of English history—especially in its cultural aspects.
b. A knowledge of English geography, topography, etc., as *place* and *physical environment* in relation to literary men and their works.
3. Some understanding of the more significant movements in the field of philosophy, especially as they apply in the realms of literature and art.
4. An intelligent acquaintance with a share of the great books of the world, particularly with those appearing in Reading Lists I and II.
5. a. An average of B or better in divisional courses of C or D rank.
b. Acceptable evidence, in the form of a paper, of achievement in the direction of one of the three: scholarly research, critical literary appreciation, or independent creation in prose or verse,—the paper to be produced during the course of the senior year.

THE COMPREHENSIVE EXAMINATION: The success of the student meeting the standard set up will be tested in a final Comprehensive examination at the close of the senior year.

DIVISION III—FOREIGN LANGUAGES AND LITERATURES (FRENCH, GERMAN, GREEK, ITALIAN, LATIN AND SPANISH)

CONCENTRATION IN THE DIVISION

A student interested in the synthetic study of the complete field of foreign letters may, under an adviser appointed by the division, pursue work in the various departments of the division, thereby concentrating in the division. Such a student should hold no credit bearing conferences from time to time with the divisional faculty, looking toward a comprehensive examination in the general field of foreign languages and literatures.

CONCENTRATION IN DEPARTMENTS

A student planning to concentrate upon any one of the foreign languages should have begun his study of that language before entering college. Preparatory work in some other language is also a distinct advantage.

Although the student is normally expected to concentrate in only one of the departments of Foreign Languages, he should acquire as broad an acquaintance as possible in all the other fields of literature represented in the division.

Eighteen to twenty-four hours of C and D work are required in the department concerned, in which at least a B average must be maintained. For a student desirous of doing more specialized work than is possible under the regularly scheduled offerings, the Honors plan presents additional opportunity. At the end of the Senior year a comprehensive examination will be required.

LATIN AND GREEK

Concentration in the Classical Languages is designed to give the student a technical knowledge of the language and literature of special interest and an appreciation of the life and institutions intimately connected with that literature.

The student of Latin is expected also to have an acquaintance with the Greek language and literature. It is not essential, however, in the lower division courses of Latin.

ROMANIC LANGUAGES AND LITERATURES

A student expecting to concentrate in the Romanic Languages and Literatures should be fortified with a pre-knowledge of Latin, and will find it much to his advantage to have begun the study of French or Spanish, or both, before entering college.

Concentration in the Romanic Languages and Literatures is designed to provide: first, a broad general knowledge of both the language and literature of the student's special interest; and second, a considerable knowledge, represented by not less than two years college work in at least one other language of the Romance field.

A student who is well equipped in foreign language on entering college, is urged to take work in all three of the Romanic Languages.

GERMAN

Concentration in German is designed to give the student a knowledge of the language and of the German civilization as represented by the best works of literature.

DIVISION IV—BIOLOGICAL SCIENCES

(DEPARTMENTS OF BIOLOGY, BOTANY AND ZOOLOGY)

OPPORTUNITIES.

The location of Pomona College, close to mountain, desert, coastal plain and sea, makes it especially suited to studies of systematic and ecological nature. This assures also an adequate and diversified supply of materials for class and laboratory and for special problems of a morphological or physiological nature. The college, furthermore, possesses a number of special biological collections, notably of plants and insects. The Marine Laboratory of the College at Laguna Beach is an adjunct valuable during the summer session and of use on occasion throughout the year.

CONCENTRATION IN THE DIVISION.

A student emphasizing biological science is ordinarily expected to have Biology A1, Botany B21, and Zoology B11, 12 (or their equivalents), followed by an integrated program in either Botany or Zoology or both. Those concentrating in this division are expected to participate in a non-credit bearing conference looking toward a comprehensive examination at graduation. A reading knowledge of German and French and a training in the physical sciences are also expected according to the needs of the individual.

I. COURSES PREPARATORY TO:

(1). Graduate work, looking towards investigation or higher education. Broad foundations in the biological and physical sciences, with liberal selections of advanced courses in the field of concentration, are essential for those who anticipate professional work in biological science.

(2). Teaching in secondary schools. Teachers of biological subjects and general science need basic courses in as many branches of science as possible. The following are also important: Plant Physiology and Taxonomy, Human Body, Entomology, Functional Zoology, Genetics and Bionomics.

(3). Museum work, conservation, nature guide work, field biology. In addition to the basic courses are recommended: Plant Taxonomy, Functional Zoology, Entomology, Special Problems, Ecology.

(4). Horticulture, agronomy, landscape art, forestry. For the first two: Plant Physiology, Bacteriology, Entomology, Genetics, Considerable Chemistry, Elementary Physics, Structural Geology. For landscape art: Plant Taxonomy, Freehand and Mechanical Drawing, Surveying, Chemistry, Geology, and Economics. For forestry: Plant Taxonomy, Entomology, Surveying.

(5). Medicine, nursing, laboratory technique, public health, and sanitation. Pre-medical requirements are discussed elsewhere. Inasmuch as medicine is highly biological, a liberal election of Embryology, Histology, Neurology, Functional Zoology is recommended. Work in Entomology, Bacteriology and General Botany is commended in addition to the above for Public Health.

THE PROGRAM OF STUDIES

DIVISION V—PHYSICAL SCIENCES

(DEPARTMENTS OF ASTRONOMY, CHEMISTRY, GEOLOGY,
MATHEMATICS AND PHYSICS)

The Division of Physical Sciences renders through its freshman and sophomore courses two quite distinct types of educational service:

1. For persons who are not intimately concerned with scientific or scientific pursuits it offers a general introduction through survey courses to modern scientific method, to the philosophic aspects of science, and to the place of the sciences in the general scheme of human affairs, along with the theoretical and descriptive presentation of the subject-matter. Conspicuous among such courses are: Mathematics A1, Physics A1, Chemistry A1, Astronomy B1 and Geology B1.

2. For those who incline toward more emphasis on the physical sciences during their collegiate years, whether for purposes of teaching, or with a view to engaging in commercial enterprises requiring knowledge of physical science, or because of an interest in scientific study for its own sake, the Division offers excellent opportunities for concentration.

PREREQUISITES for undertaking concentration in Physical Science:

1. Physics and Chemistry: Fundamental in importance is such an understanding of the constitution and value of matter and energy as is ordinarily gained through basic courses in Physics and Chemistry.

2. Mathematics: A practical knowledge of the tools of scientific reasoning acquired in Mathematics is essential. This will mean mathematics courses at least through calculus. It is urged that those planning such work in college complete trigonometry in high school.

3. Foreign Languages: It is highly desirable that the student purposing to concentrate in the Physical Sciences shall acquire a reading knowledge of both French and German. The more is known the better knowledge is gained during the high school years the better.

CONCENTRATION: Each one of the departments grouped in the Division has its own sequence of courses for the student concentrating in its section of the general field; but it also requires supplementary work in related departments. In addition, there are opportunities for concentration in fields that cross departmental lines. The combinations and implications are too markedly individual, however, to permit of a satisfactory general statement; they must be worked out between the student and his adviser.

DIVISION VI—SOCIAL SCIENCES

(DEPARTMENTS OF ECONOMICS, EDUCATION, HISTORY,
POLITICAL SCIENCE AND LAW, AND SOCIOLOGY)

CONCENTRATION IN THE DIVISION¹: Although emphasis in the program of a student concentrating in the Division is placed on an integrated sequence of studies in one of the social sciences, it is expected that the student will obtain a broad understanding of the content and meaning of the social sciences as a whole. With this view he will include early in his course at least three of the four basic courses² in the Division. He will maintain a "B" average in the social studies, will complete 24 hours in "C" and "D" courses in the Division of which at least 12 must be "D," and will include courses D251 and D252 in the social science of his more intensive study.

FOREIGN LANGUAGE: It is recommended that every student concentrating in the Division of Social Sciences acquire a reading knowledge of French *and* German. Normally by the beginning of the Junior year but not later than the middle of his Senior year, the student is required to file with his Adviser a written certificate of his ability to read French *or* German, issued by a member of the Division who has been designated to examine in those languages.

COMPREHENSIVE EXAMINATION. The work of a candidate concentrating in social sciences culminates in a written comprehensive examination, administered by the Division. This examination consists of two parts: (1) a general examination to reveal the candidate's grasp of the broader aspects of the several social sciences and their interrelations, and (2) a more specialized examination to test his mastery of the particular social science which the candidate has studied intensively. Inasmuch as the purpose of the comprehensive examination is to appraise the candidate's integration of the entire range of social studies included in his undergraduate program, the passing of both parts of this examination will exempt the student from final examinations in social science courses at the end of his Senior year.

The following courses offered by the Department of Education are considered to be part of the work of the Division of Social Sciences:

Introduction to Education; History of Education.

SUPPLEMENTARY COURSES: In addition, the courses listed below, and other courses approved by the Division, may form a part of a student's program of concentration in the Social Sciences:

Philosophy of the State; History of Philosophy; Social Psychology.

The attention of social science students is called to certain courses available to them, offered by affiliated colleges in Claremont.

¹ departmental concentration, or major, is offered in any social science.
² Economics B11, History A1, Political Science A1, Sociology B21.

THE PROGRAM OF STUDIES

DIVISION VII—PHILOSOPHY, PSYCHOLOGY AND RELIGION

A SUGGESTED COURSE during the Lower Division years for those proposing to concentrate in the Division:

Freshman Year

Biology A1
Chemistry A1 or Physics A1
History A1 or Political
Science A1
English A1
Religion A1

Sophomore Year

Zoology B3 or Astronomy
Psychology B1
Economics B11 or Sociology
B21
Philosophy B21 or B23
Religion B

Note: A reading knowledge of French and German is ultimately necessary for persons who undertake advanced graduate work in the field of the division.

CONCENTRATION IN THE DIVISION requires:

1. The completion of the following basic courses:
Philosophy C125 or C127;
Psychology B1;
Religion C109.
2. The completion of forty hours in the division; eight of these hours shall be taken in one of the departments of the division; six of them shall be of D rank.
3. The maintenance of a grade of B or better in divisional courses.
4. The passing of a comprehensive examination covering the entire field of concentration at the close of the senior year.

A SUGGESTED PRE-ENGINEERING COURSE

In the belief that the training of a liberal arts college, so essential to men in other professions, is essential to the engineer, Monona has developed a series of courses to enable its graduates enter the upper division work of engineering schools and to graduate therefrom in two years. Men during the first two years will take the same course regardless of the field of engineering contemplated.

FRESHMAN YEAR

	Hours
Chemistry B3 or A1 and B2.....	6 or 8
Mathematics A1	6
Mathematics A7 (Engineering Drawing).....	4
Foreign Language	6
Elective	10 or 7

SOPHOMORE YEAR

Economics B11	6
Mathematics C115	6
Mathematics B9 (Engineering Drawing).....	4
Physics B2 and B4.....	10
Foreign Language	6

JUNIOR YEAR

Chemistry B6 ^{1 2 3}	3
Mathematics D120 ^{1 2 3}	3
Astronomy or Geology ¹	6
Economics ¹	6
Physics C111 and D109 ^{2 3}	10
Electives	4 or 6

SENIOR YEAR

Mathematics D121 ^{1 2 3}	6
Physics D120 ³	6
Physics D113 ^{1 2 3} (Analytic Mechanics).....	6
Electives	14

In addition the six weeks' summer course in surveying at Bluff Lake should be taken by all.

- to be taken by civil, structural and hydraulic engineers.
- to be taken by aeronautical and mechanical engineers.
- to be taken by electrical engineers.

THE PROGRAM OF STUDIES

A SUGGESTED PRE-MEDICAL COURSE

Certain subjects have been designated by the Council on Medical Education of the American Medical Association as unconditional requirements for entrance to Class A medical colleges. Many of the leading medical colleges, however, have requirements well beyond this minimum. Pre-medical students are advised not to attempt to crowd the minimum requirements into two years of college work, but to build, in more leisurely fashion, a broad educational foundation. The outline below indicates a curriculum which meets the requirements for graduation from Pomona College, and, it is believed, the entrance requirements of all medical colleges in the United States.

Freshman Year		Junior Year	
	Hours	Chemistry, Organic (C110) ..	
English (A1)	8	Physics (B2, B4)	
Chemistry, General (B3 or A1, B2)	6 or 8	Zoology (D113, D114 or D117)	
*Mathematics A1	6	Electives from Divisions	
German or French	6	other than IV and V	4
Free Electives	6 or 4	Free elective	6
Sophomore Year		Senior Year	
	Hours	All elective. A major in either Chemistry or Zoology may be completed. Subjects especially recommended are Philosophy, Sociology, Economics, Language and Literature, and Psychology.	
Chemistry, Analytical (B6, B7)	6		
Zoology (B11, B12)	6		
Psychology	6		
German or French	6		
Mathematics or free elective	6		

A reading knowledge of both German and French is highly desirable. If one has been taken in High School, it is recommended that the other be taken in college. High School work in Latin, as well as French and German, is recommended for those planning a medical course. High School trigonometry, physics and chemistry are also recommended. For one wishing to concentrate on the chemical phases of the medical sciences, mathematics through calculus should be taken in college. Some of the medical schools require including physical chemistry in their curricula. Breadth of view, culture, and a thorough grounding in the biological and physico-chemical sciences are the objectives of the pre-medical course.

*Pre-medical students who have not had trigonometry in High School are definitely required to take Mathematics A1a as a prerequisite for Physics B2. It is recommended that all take the year's working Mathematics A1.

A SUGGESTED COURSE FOR PROSPECTIVE TEACHERS

The courses in Education in Pomona College are designed to supply the information each intelligent citizen should have concerning one of the most important of our social institutions; they offer also to the prospective teacher a certain amount of pre-professional training.

CERTIFICATES: In California every teacher must have a certificate. The certificate is issued by the county in which the teacher is employed upon presentation to the county board of education of a qualifying credential issued by the State Board of Education thru its Commission on Credentials. The Commission issues the credential to the candidate upon the basis of evidence furnished by the candidate's college that he has completed the requirements laid down by the State. Requirements vary for different certificates and those who contemplate entering the teaching profession should make themselves familiar with these requirements as indicated in the bulletins of the State Board of Education which may be had by application to the State Board in Sacramento.

The more technical professional requirements are not usually met by courses offered in Pomona College and will need to be satisfied by courses taken in Claremont Colleges or elsewhere. Pomona College, however, does undertake to offer the prospective teacher the opportunity of becoming thoroughly acquainted with the fundamental concepts of education as a social institution and of laying a broad foundation upon which future technical training may be profitably built.

A SUGGESTED PROGRAM for the prospective teacher:

Freshman year: Academic courses preparatory to the credential view.

Sophomore year: Education B3; Psychology B1; further work in the subject-matter to be taught.

Junior year: Education C104 a, b; Psychology C107¹; further work in the subject-matter to be taught, or in related fields.

Senior year: A selection from Psychology D217¹; Education D215; Education D217. A rounding out of the subject-matter to be taught.

These courses count technically as Education in all matters involving credentials.

THE PROGRAM OF STUDIES

A SUGGESTED COURSE FOR PROSPECTIVE TEACHERS OF
PHYSICAL EDUCATION

Freshman Year		Sophomore Year	
	Hours		Hours
English A1	8	Zoology B3	
Chemistry B3	6	Sociology B21	
Biology A1	6	Psychology B1	
Hygiene A5	2	Music B3	
Electives from divisions III, VI, or VII	8 or 9	Electives	9 or 10
Junior Year			
Public Address B32	4		
Psychology C107	3		
Zoology C105	3		
Physical Education C130	3		
Physical Education C127, C128	4		
Physical Education C119 (for women)	2		
Education B3	3		
Electives in divisions other than VI or VII	8 or 9		

6 units of required Physical Education Activities.

¹For men who plan to get a special secondary credential at the end of their fourth year Physical Education D219, 4 hours, and Education D210, 4 hours, are required.

A reading knowledge of French and German is highly desirable for any students who plan to go on to graduate research in Physical Education.

COURSES OF INSTRUCTION

DESIGNATION OF COURSES

The letter preceding the number in the designation of a course indicates in general its grade. Elementary courses, designated by (as English A1) are given in Freshman or Sophomore year; B courses are either those which follow the A course of earlier years the more advanced beginning courses; C and D Courses are advanced courses given to Juniors and Seniors, D courses being the more difficult. The natural sequence of courses is from A to B, B to C and C to D, and a student may not enter a C or D course without previous work in the same line.

Courses with numbers below 100 are underclass courses; those numbered from 100 to 199 are for Juniors and Seniors; those numbered over 200 are not open to students of less than Senior standing.

Any course may be withdrawn if the enrollment is less than five.

In departments where one-hour courses are offered, two such courses should be completed to secure the counting of hours and credits toward graduation.

When courses in different semesters have the same general number and are connected by a hyphen thus, B1a-B1b, they cover a common subject and the entire sequence should be taken. If, however, they are connected by a comma, thus, B1a, B1b, although the course extends throughout the year, independent credit is given for the work of the first semester and the first course may be followed by the allied subject instead of the next course in the sequence. Entrance to the second semester course is by permission of the instructor.

All courses are three hours each unless otherwise designated.

Roman numerals show the periods of recitations. Two courses with the same Roman numerals cannot be taken contemporaneously unless the numerals are preceded by different letters (as *M* or *W*), showing that the classes meet on different days of the group.

	8:00	9:00	10:00	11:00	1:15	2:15	3:15
<i>W</i> F.....	<i>I</i>	<i>III</i>	<i>V</i>	<i>VII</i>	<i>IX</i>	<i>XI</i>	<i>XIII</i>
<i>Th</i> S.....	<i>II</i>	<i>IV</i>	<i>VI</i>		<i>X</i>	<i>XII</i>	<i>XIV</i>

Hours to be arranged—A.

If a letter precedes the numeral, the class meets only on that day of the group.

ANTHROPOLOGY

Courses in this field are available at Scripps College.

ART

A fee of \$5 is charged for each hour of credit except in course B15.

A1a-A1b. Design. MR. BE

A study of the elements of design in primitive art and historical ornament, and their application to various types of original commercial designs. 2 hours. Class *MW, V*; laboratory, *M, T* to 4:05 or *A*.

A2a-A2b. Drawing. MR. BE

Study of the theory of perspective with practice in outdoor sketching. Still-life in pencil and work in pen-and-ink and color are included. 2 hours. Class, *TTh, X*; laboratory, *TTh, T* *XIV* or *A*.

B11a, B11b. Advanced Drawing. MR. BE

In the first semester, cast drawing in charcoal followed by portrait drawing from the model in the same medium. In the second, pictorial composition considered in relation to commercial design and illustration in charcoal, pen-and-ink, color. 2 hours. Class, *WF, IX*; laboratory, *WF, XI* and *XIII*.

B15. Principles of Art Criticism. MR. BIG

A study of art principles as applied in everyday life. Second semester. 2 hours. *WF, VII*.

C120a-C120b. Painting. MR. BIG

Practice in Still-life and Landscape is adapted to a study of the techniques of various historic schools of oil painting. These are explained by means of a system of set palettes which afford an understanding of painting principles and an opportunity for the development of individuality of manner. 2 hours. Class, *T* *XIII*; laboratory, *WF, IX* and *XI*.

D205a-D205b. Advanced Painting. MR. BIG

Attention is given to the completion of easel pictures including the portrait and the decorative composition. A large finished canvas is required in the second semester. 2 hours. Class *T* *XIV* laboratory. *TTh, X, XII*.

ASTRONOMY

B1a-B1b. General Astronomy MR. WHITE

A non-mathematical course dealing with the general facts of astronomy, including regular observations at the Observatory designed for students who have only elementary preparatory

¹In addition to the courses listed below there will be announced at the time of registration certain inter-collegiate courses open for Poon students offered under the auspices of Scripps College.

physics or chemistry and mathematics. Classroom, two hours a week; lecture and observatory amounting to one period a week. Laboratory fee, \$3.00 per semester. Two sections, *VI* and *VII*.

01-C102. Astronomy and Cosmogony MR. BRACKETT

A course in the essentials of the subject, designed for students who have a working knowledge of analytic geometry and calculus and of the more important principles of physical science, including, in the second semester, a study of recent theories of cosmogony as compared with historical hypotheses. Classroom, two hours a week; lecture and observatory amounting to one period a week. Laboratory fee, \$3.00 per semester. *V*.

03a-C103b. The Sun and Other Galactic Stars.

MR. BRACKETT and MR. WHITNEY

A systematic study of the sun and its observable phenomena, including sunspots, prominences and various forms of radiation. The results of recent and contemporaneous work are integrated with the student's own observations with the horizontal telescope, pyrheliometer, spectrograph and spectrohelioscope. Observational study begun in the first semester continues throughout the year. At the same time systematic observation of certain variable and binary stars is carried on, with construction of light curves and discussion of their classification and origin.

The year course constitutes a comparative study of our sun and its relation to other stars of the universe. Laboratory fee, \$5.00. *A*.

04. Theoretical and Practical Astronomy, A. MR. WHITNEY

Some phase of theoretical and practical astronomy, such as the determination of time, latitude, and longitude, with their applications to marine and aerial navigation. Classroom, one hour a week; observatory work amounting to two hours a week. First semester. Fee, \$5.00. *A*.

05. Theoretical and Practical Astronomy, B. MR. BRACKETT

A short course in Celestial Mechanics or the application of the principles of mechanics to the motions of the heavenly bodies, with problems in the computation of orbits or the determination of the circumstances of eclipses. Elements of differential and integral calculus required. Second semester. *A*.

Note: Either courses D104 and D105 or course D106a-D106b will be offered each year according to demand, but both will not ordinarily be given.

06a-D106b. Astrophysics.

MR. WHITNEY

A comprehensive study of solar physics and the position of the sun in the general classification of stars. Laboratory work with telescope, spectrograph and spectrohelioscope is accompanied by a study of modern theories of stellar evolution.

The applications of the spectroscope to stellar distances and the interferometer to star diameters are also considered together with the relation between modern theories of atomic structure and the interpretation of stellar spectra. Laboratory fee, \$5.00 per semester. *A*.

D230. Investigations in Astronomy

MR. BRACKETT and MR. WHITE

Investigation in a particular field such as variable stars or solar physics, or in some phase of astrophysics. Each semester. 4 hours. May be repeated for credit. Fee, \$5.00 per semester.

BIOLOGY

A1a-A1b. General Biology.

MR. HILTON, MR. HITCHCOCK and ASSISTANTS

A general course either for those who intend to take further work in biology or for those who wish but one year. It may be taken for credit by those who have high school biology, botany or zoology. It will consider material, methods, and fundamental principles in the whole field of biology by means of class, demonstration, laboratory, and field work. By means of the practical method it will be fitted to the preparations, needs, and interests of individuals or groups. Class, *MW, VII*; laboratory, election, trip, or demonstration *MTWTh or F, 1:15-4:10*. Fee, \$6.00 per semester.

C105. Bacteriology.

MR. M

General study of important bacteria, methods of culture and study, and importance in disease and agriculture. Prerequisite: one year of biological work. First semester. Class, *A*; laboratory, *WF, 1:15-4:10*. Laboratory fee, \$8.00. Breach deposit, \$5.00. Alternates with C107. (*Omitted in 1931-1932*.)

C107. Genetics.

MR. HITCHCOCK

A non-laboratory course covering modern developments in the study of heredity and evolution and their general application to plant and animal breeding and to eugenics and race questions. Class work will be accompanied by demonstrations, problems, and discussions. Prerequisite: one year of biological work. First semester. *I*. Fee, \$3.00. Alternates with Botany 123.

C108. Bionomics.

MR. HITCHCOCK

A course in the history of biological progress, including major problems in evolution, heredity and eugenics. It is open to Juniors or Seniors who have had a year of biological work. May be taken with Zoology D131 for three hours. Second semester. 2 hours. *MW, I*.

BOTANY

1a-B21b. General Botany.

MR. HITCHCOCK

A general introductory course to the study of plant life, covering the structure and life-processes of plants, and attempting to give a picture of plants as living organisms. A survey of the plant kingdom, giving the steps in the evolution series. Both laboratory and field work. Prerequisite: one year of high school or college laboratory science. Class, *TTh, VI*; laboratory, *Th, 1:15-4:10*. Laboratory fee, \$6.00 a semester.

23. Plant Physiology.

MR. MUNZ

A study of the physics and chemistry of plant-life, discussing the nutrition, life-processes, absorption, conduction, transpiration, photosynthesis, respiration, growth, etc. Important for those students contemplating horticultural work, teaching of biology, and for botany majors. Prerequisite: Botany B21. First semester. *A*. Two class periods and one laboratory. Laboratory fee, \$8.00. Breakage deposit, \$5.00. Alternates with Biology C107. (*Omitted in 1931-1932*).

24. Mycology.

MR. HITCHCOCK

A brief survey of the fungi, with particular reference to those forms which are economically important. First semester. *A*. Class, 1 hour, laboratory and field work, 2 periods. Laboratory fee, \$7.00.

25a, D125b. Taxonomy.

MR. HITCHCOCK

Study of our local flora and more common cultivated ornamentals. Principles and methods of classification and taxonomic work. Much field work with trips to desert, mountain, and shore for study of plants in their native conditions. Prerequisite: Botany B21. First semester, Class, *WF, III*; laboratory, *M, 1:15-4:10*. Second semester, Class, *F, III*; laboratory, *MW, 1:15-4:10*. Laboratory fee, \$7.00 each semester. Alternates with D127.

27a, D127b. Anatomy and Comparative Morphology

of Green Plants.

MR. MUNZ

The anatomy with special reference to vascular tissues from the evolutionary point of view. Morphology covering life-histories, evolutionary series, and relationships of groups of green plants from algae to seed plants. Prerequisite: Botany B21. Class, *WF, I*; laboratory, *M, 1:15-4:10*. Laboratory fee, \$7.00 a semester. Alternates with D125. (*Omitted in 1931-1932*).

31. Botanical Problems.

MR. HITCHCOCK

Special work, largely individual, and primarily for majors in the department. Each semester. 1 to 3 hours. May be repeated for credit. Permission of instructor necessary for registration. Laboratory fee, \$2.00 per hour of credit.

ZOOLOGY

B3a-B3b. The Human Body.

MR. GILCHRIST

A course in the structure and function of the human body. Students may enter the course either semester, but must attend both semesters for credit. Class periods, *MF, I*; laboratory, *Th, 1:15-4:10*. Laboratory fee, \$6.00 each.

B11, B12. General Zoology.

MR. HILTON

A general course which deals with the classification, general habits and distribution of animals. The first semester considers the invertebrates, in the second attention is given to the bony animals. Class, *TTh, II*; laboratory, *T or W, 1:15-4:10*. Laboratory fee, \$6.00 each.

C105. Anatomy.

MR. GILCHRIST

The gross structure of the mammal body, with especial reference to man. Laboratory includes a study of the human skeleton and a dissection of the cat or other mammal. Prerequisite: Zoology B3 or B12. First semester. Class, *M, III*; laboratory, *WF, I* and four hours to be arranged. Laboratory fee, \$6.00.

C110a, C110b. Functional Zoology.

MR. GILCHRIST

A study of living animals. The first semester deals with General and Comparative Physiology; the second semester considers problems of Experimental Zoology, such as heredity, development, regeneration of form. Prerequisite: College Biology or Zoology. Two hours. *A*.

C118. Entomology.

MR. HILTON

A general course in the structure and classification of insects. Each student makes his own collection for identification and study. Prerequisite: Zoology B11. Second semester. *A*. Laboratory fee, \$6.00. (*Omitted in 1931-1932*).

D113. Histology.

MR. HILTON

The microscopic anatomy of the tissues and organs especially of vertebrates. Some attention is given to methods. Prerequisite: Zoology B3 or Zoology B11, B12. First semester. Class, *T, IV*. Laboratory by appointment. One class, two laboratory periods. Laboratory fee, \$8.00.

D114. Neurology.

MR. HILTON

A general consideration of the structure and functions of the nervous system and sense organs chiefly of vertebrates. Prerequisite: Zoology D113. Second semester. Class *T, IV*. Laboratory by appointment. One class, two laboratory periods. Laboratory fee, \$6.00.

D117a, D117b. Embryology.

MR. GILCHRIST

The first semester deals with maturation, fertilization and early development. The second semester is concerned with the formation of organs. Prerequisite: Zoology B3 or B11 and B12. Class, *A*; laboratory, *MW, 1:15-4:10*. Laboratory fee, \$8.00 each.

1. Zoological Literature.

MR. HILTON

Reviews of important contributions in all fields of recent Zoological literature. Open to Juniors and Seniors. Second semester. 1 hour. *F, I*.

5. Zoological Problems.

MR. HILTON and MR. GILCHRIST

This course is for undergraduates who are prepared to undertake special work in general Zoology, Physiology, Entomology, Anatomy or Embryology. Such problems may be with local insects or other animals or they may be of a general nature dealing with life functions and structures. Either semester. 2 to 3 hours. *A*. May be repeated for credit. Laboratory fee, \$2.00 per hour.

CHEMISTRY

A1b. A Survey of Chemical Science.

MR. ROBINSON

Intended especially for those who are planning no further work in chemistry, but with Chemistry B2 may serve as preparation for advanced courses. Presents our present-day concepts of the nature of matter and its behavior, the origin of these concepts, and the place of chemistry in human affairs. No laboratory. *V*. Fee, \$2.00 each semester to defray expenses of lecture demonstrations.

B2b. Experimental Inorganic Chemistry.

MISS OTIS

To accompany or to follow Chemistry A1. Intended, in lieu of Chemistry B3, for those who are planning further science work. Laboratory work similar to that of B3, with assigned problems and studies. Each semester, one hour; or the entire course (B2) may be taken in one semester, 2 hours. Laboratory, *T* or *Th*, 1:15-4:10. Laboratory fee, \$6.00 or \$10.00.

B3b. Inorganic and Elementary Theoretical Chemistry.

MR. ROBINSON and MISS OTIS

A foundation course for those who are planning further work in science. Entrance chemistry is prerequisite, except by the consent of the instructors. Class, *TTh, IV*; laboratory, *T* or *Th*, 1:15-4:10. Laboratory fee, \$6.00 each semester.

Qualitative Analysis.

MR. LEIGHTON

Prerequisite: Chemistry B3 or A1 and B2. Laboratory practice in systematic analysis of anions and cations, and studies in the principles of chemical behavior. First semester. Class, *T, II*; laboratory, *WF*, 1:15-4:10. Laboratory fee, \$10.00.

Elementary Quantitative Analysis.

MR. LEIGHTON

To be preceded by Chemistry B6. Laboratory practice in the simpler volumetric and gravimetric methods of analysis, studies of these methods and problems involving chemical calculations. Second semester. Class, *T, II*; laboratory, *WF*, 1:15-4:10. Laboratory fee, \$10.00.

C110a, C110b. Organic Chemistry.

MR. ROBINSON

Prerequisite: Chemistry B3 or A1 and B2. In the first semester, a survey of the principal classes of carbon compounds and their characteristics, both aliphatic and aromatic; in the second semester, more complex compounds, studies in synthetic methods, problems of structure, and applied organic chemistry. Class, *Cl, VII*; laboratory, *1:15-4:10, T, W*, 4 or 5 hours. Laboratory fee, \$6.00 or \$10.00 each semester.

C111. Advanced Quantitative Analysis.

MR. LEIGHTON

A continuation of B7, designed to give the student a more comprehensive knowledge of the theory and practice of volumetric and gravimetric analysis. Either semester. Class, *Th, II*; laboratory, *WF, 1:15-4:10*. Laboratory fee, \$10.00.

D113. Special Analytical Methods.

THE STAFF

Consent of instructor required. Opportunity for the student to familiarize himself with methods not covered in B7 and C1, such as micro-chemistry, spectroscopy, organic analysis, field analysis, etc. Laboratory and conference, *A*. Each semester, 2 or 3 hours. May be repeated for credit. Laboratory fee, \$10.00 per hour.

D114. Advanced Organic Chemistry.

MR. ROBINSON

Prerequisite: Chemistry C110b. Opportunity for additional study in the theory and laboratory methods of organic chemistry. Laboratory and conference, *A*. Each semester, 2 or 3 hours. May be repeated for credit. Laboratory fee, \$5.00 per hour.

D115a, D115b. Biological Chemistry.

MISS COLE

Prerequisites: Chemistry B7 and C110, or consent of instructor. Lectures and reports, and qualitative and quantitative experiments on the chemistry of the materials and life-processes of organisms. The fundamental principles of human nutrition are included. Class, *WF, III*; laboratory, *F, 1:15-4:10*. Laboratory fee, \$6.00 each.

D119a, D119b. Physical Chemistry.

MR. LEIGHTON

First semester:—Prerequisite: A C course in either chemistry or physics. A general review of elementary physical chemistry. Second semester:—Prerequisite: Chemistry D119a, differential and integral calculus. More intensive study in special fields, with emphasis on the principles of thermodynamics. Class, *MW*; laboratory, *M, 1:15-4:10*. Laboratory fee, \$8.00 each.

D121a, D121b. Chemistry Conference.

THE STAFF

Oral or written reports by students, on material found in current chemical literature; discussions of research methods, the trend of present-day research, and recent developments in theoretical and applied chemistry. Each semester. One hour.

01a, D201b. Research in Chemistry.

THE STAFF

Opportunity for the properly qualified student to gain some acquaintance with investigational methods used in the field of Chemistry. Problems in physical, analytical, organic or biological chemistry may be undertaken, with the consent of the instructor under whom the student wishes to work. 2-6 hours. *A.* Each semester. May be repeated for credit. Fees, \$3.00 per hour.

CLASSICS

GREEK

a-B1b. Elementary.

MR. ROBBINS

First lessons; relation to modern Greek and to English scientific vocabulary; selected short passages from Greek literature; Book I of Homer's *Iliad*. *II.*

01a, C101b. Selections from Greek Literature.

MR. ROBBINS

Two sequences of readings are offered in alternate years: Herodotus, Plato, Homer, Greek comedy and tragedy, the New Testament. Studies in morphology and syntax are regular features of the work. The course may be repeated for credit in successive years. *IX. (Omitted in 1931-1932).*

LATIN

a-A1b. Elementary.

MR. ROBBINS

An introductory course in the rudiments of the Latin language with emphasis upon the relation of Latin to English and the Romanic languages. *VII. (Omitted in 1931-1932).*

a-B3b. Cicero, Pliny and Horace.

MR. ROBBINS

Cicero, *De Senectute*; Pliny, *Selected Letters*; study of the life and times of the late Roman republic and early empire. Horace, *Odes and Epodes*; philosophy, history and mythology as reflected in the poems of Horace; study of the metrics of Horace and the influence of the Greek lyric poets. *VI.*

05a-C105b. Composition.

MR. ROBBINS

Review of Latin grammar; translation of sentences and connected discourse into Latin according to the needs of the class; lectures on word-formation and syntax. This course may be re-elected with credit and is required of students majoring in Latin. *A.* One hour.

07a, C107b. Roman Comedy and Elegy.

MR. ROBBINS

Selected plays from Plautus and Terence. Origin and development of the elegy with emphasis upon the poems of Catullus, Tibullus, Propertius and Ovid. *III.*

D109a, D109b. Roman History and Biography. MR. ROBE

Two sequences of readings are offered in alternate years: a, Roman philosophy, satire, and pastoral poetry; b, Roman historical and political antiquities. The course may be repeated for credit in successive years. In 1931-1932, sequence b. *IV*.

ECONOMICS

A5a-A5b. Accounting. MR. DE RYCK

A study in theory and method, developing from the balance sheet the fundamental principles underlying alike the construction and interpretation of financial records. *MF, VII, and TW, 1:15-4:05*. Laboratory fee, \$3.00 each semester.

B11a-B11b. Principles of Economics. MR. DUNN

The basic course in the general principles of Economics, required for students expecting to emphasize the study of Economics, and prerequisite for upper division courses in Economics. Economics A5 not prerequisite for Economics B11. *Two sections. I, III*.

B29. Statistical Methods. MR. DE RYCK

A study in method, in which it is sought to develop a critical attitude toward published statistics and to equip the student with such processes of analysis and presentation as will enable him to think in numerical terms. Second semester. *S, II*. Laboratory periods, *Th and F, 1:15-4:10*. Laboratory fee, \$4.00.

C105. Money and Banking. MR. DE RYCK

Principles of money, credit, and banking interpreted in the light of the institutions and financial organization designed to supply society with adequate media of exchange. First semester. *I*.

C106. Public Finance. MR. DUNN

Public expenditures, public revenues, public debt, and financial administration, with special attention to the theory and practice of taxation. Second semester. *IV*.

C109. Transportation Problems. MR. DE RYCK

An historical and analytical study of transportation principles and problems, with particular reference to railway transportation in the United States. Second semester. *VI*. Offered in alternate years. Given in 1931-1932.

C110. Corporation Finance. MR. DUNN

Principles underlying the promotion, financial structure and control, failure and reorganization of corporate enterprise, including some study of cooperative organizations. First semester. *V*. Prerequisite: Economics A5, or equivalent.

20. Public Utility Economics.

MR. DE RYCKE

An historical and analytical study of public utility problems in the United States. Particular emphasis is laid upon the economics of overhead costs, the role of competition, regulation and valuation. Second semester. *VI*. Offered in alternate years. (*Omitted in 1931-1932*).

11. Investments.

MR. DE RYCKE

A study of investment and investment credit, and of the institutions utilized to facilitate the transfer of savings to permanent employment as capital. Together with C105 this course is designed to afford a view of the financial organization of society. Prerequisite: Economics C110. Economics C105 recommended. Second semester. *V*.

15. Principles of International Trade.

MR. DE RYCKE

Principles and structure underlying international economic relations. Prerequisite: Economics C105. First semester. *V*.

16. Agricultural Economics.

MR. G. S. BURGESS

A study of the application of economic principles to certain problems of agriculture, such as land tenure, transport, labor, marketing and prices. Second semester. *III*.

17. Economic Problems of the Orient.

MR. DUNCAN

A study of the economic, social and political problems of the Far East with special reference to current conditions in China. Enrollment restricted to those expecting to concentrate in Social Science and to others by special consent of instructor. First semester. *VII*.

19. Monopolies and Trusts.

MR. G. S. BURGESS

A study of the economic and legal status of monopolies. First semester. *III*.

52. Economic Theory.

MR. DUNCAN

The special topics studied vary from year to year, and will include critical analysis of underlying economic theory and its development. The course aims to synthesize the student's work in Economics and culminates in the comprehensive examination required for those whose field of intensive study is Economics. Second semester. 3 hours. *A*.

EDUCATION

. Introduction to Education.

MR. DOUGLASS

A course designed for those who desire an understanding of the American school system. The outstanding problems of present-day education are examined and certain approaches to a solution of these problems are discussed. This course or equivalent prerequisite for Education C104, D215, D217. Second semester. *IV*.

C104a, C104b. History of Education.

MR. NICHOLSON

The development of educational theory and practice from the Greek period to the present, with an attempt during the second semester to make a comparison of the established systems in American and typical European countries. *VII.*

D210. Practice Teaching in Music and Physical Education.

MR. DOUGLASS

Exercises in actual teaching under direction, regular conferences with the supervisor being a feature of the work. The course is open to those completing credential requirements during the current year. 4 hours. Each semester. *A.*

D215. Principles of Secondary Education.

MR. DOUGLASS

The factors and principles which underlie the theory and practice of secondary education, including the junior high school, the senior high school and the junior college. First semester. *III.*

D217. Problems of Education.

MR. DOUGLASS

Stress is placed upon current educational questions and literature. Students may consider individual problems, 2 or 3 hours. Second semester. *A. (Omitted in 1931-1932).*

ENGLISH

Writing and Speech are emphasized features of all Lower Division courses. Persons who have in mind to concentrate in English should complete Reading List I before the beginning of the Junior year.

A1a-A1b. English: An Introductory Course.

THE DEPARTMENTAL STAFF

The fundamental principles of literary criticism and interpretation together with reading and study of specimens of the more important literary types; instruction and practice in writing and speech. 4 hours. Prerequisite for all other departmental courses. Men: *WF, I*; section meetings at *II*. Women: *Th, II*; section meetings at *I*.

B3. Shakespeare.

MR. FRAMPSON

A general course, including some consideration of Shakespeare's life and the conditions under which he lived and wrote, the chief stress falling, however, on a study of the greater plays with a view to enabling the student to read Shakespeare with sympathetic appreciation. Second semester. *V.*

B5a, B5b. Nineteenth Century Literature.

MR. HOWARD

Wide reading in the literature of the period, in poetry and essays especially, with lectures on its significance as an expression and interpretation of general English life. Registration limited to twenty-five persons. *III.*

B7b. Types of Drama.

MR. DAVIS

Studies in the great periods of dramatic achievement from the classic Greek to the present day with as extensive reading as time will permit. Offered to men and women in alternation; in 1931-1932 registration is limited to twenty-five men. *VII.*

B9b. Types of Prose Fiction.

MR. HARRIS

Studies in various phases, as tale, romance, novel and short-story, through which fiction writing has passed from medieval times to our own. Offered to men and women in alternation; in 1931-1932 registration is limited to twenty-five women. *VI.*

Character Presentation in Dramatic Literature.

MISS PRINCEHOUSE

The theory and technique of character presentation as found in selected plays. The course looks toward character-interpretation through the actor's art. Permission of the instructor must be secured before registration for this course. Each semester. *I.*

a, B21b. English Composition.

MR. HOWARD and MR. FRAMPTON

The fundamentals of effective expression in writing, with opportunity for practice in such special forms as the short story and the essay—certain journalistic types being included in the second semester. *IV.*

ADVANCED COURSES

A substantial acquaintance with the books of Reading List I is most desirable as a preliminary to registration in Upper Division courses.

1. Chaucer.

MR. LINCOLN

A study of Chaucer as the outstanding narrative and dramatic poet of the transition from the medieval to the modern world. The peculiarities of Chaucerian English will receive considerable attention. First semester. *V.*

3a, C103b. Literature of the Eighteenth Century.

MR. MC CULLEY

The neo-classical literature of Dryden, Pope and their contemporaries; the periodical essayists; sentimentalism, realism and romanticism; the eighteenth century drama; the beginnings of the English novel; the spread of the romantic movement in England and on the Continent. Registration limited to twenty, the permission of the instructor being prerequisite. *IV.*

5a, C105b. American Literature.

MR. LINCOLN

The literature of the United States, with emphasis on its expression of our national characteristics and sentiments. Offered to men and women in alternation; in 1931-1932 registration is limited to men. *VI.*

C107. Contemporary Poetry.

MR. LINCOLN

A course in the forms and content of contemporary poetry with directed practice in the writing of verse. First semester. *V*.

C111. The Short Story.

MR. FRAMPTON

Practice in supervised writing of short-stories. Study of contemporary short-stories. First semester. *V*.

C112. The Essay.

MR. HARRIS

A writing course with some study of recent essay literature. Second semester. *V*.

C117a, C117b. History of English Drama to 1642.

MR. FRAMPTON

Lectures and readings tracing the historical development of English drama from its beginning to its flowering in the work of Shakespeare and his contemporaries; thence through its decline to the closing of the theatres. *VII*.

D122. Modern English.

MR. DAVIS

A study of the forms and usages of present-day English, with considerable attention to their historical development from times as remote at least as the Chaucerian period. Prerequisite: English C101. Second semester. *V*.

D125. Shakespeare.

MR. MC CULLEY

A study of the great tragedies. Second semester. *A*.

D127. Literary Criticism.

MR. FRAMPTON

An examination of the bases of literary criticism; studies of outstanding modern critics; frequent practice in supervised critical writing. Second semester. *T, X and XII, and F, IX*.

D201a, D201b. The Great Victorians - - and their successors

MR. MC CULLEY and MR. LINCOLN

The Victorian spirit and point of view as expressed by its "major prophets"; the reactions that heralded our present-day temper and outlook. Prerequisite: English C103 or an equivalent. *I*.

D215a, D215b. The Development of English Literature.

THE DEPARTMENTAL STAFF

Lectures, reading, papers and oral reports directed toward a synthesis on the student's part of his work in the field of literature and allied subjects; the course culminates in the comprehensive final examination required of persons concentrating in English. Prerequisite: English C103 (a grade of B or better) or an equivalent. Registration for the second semester is conditioned upon a grade of B or better in the first. *M, XI, and XI and XIII*.

30. Creative Writing.

MR. FRAMPTON

Supervised practice in all forms of creative writing. Study of matters and fields of literary interest. Second semester. *T, X and XII, and F, IX.*

FRENCH

-A1b. Elementary.

MR. JONES and MRS. BISSIRI

Stress laid on accurate pronunciation, essentials of grammar, translation of French prose; dictation, conversation and easy composition. Four sections. *II, VI, VII.*

-B3b. Intermediate.

MRS. BISSIRI and MISS COGAN

Continuation of the grammar. Readings from nineteenth century novelists; selections from Chateaubriand, Hugo, Balzac, and others. Four sections, *II, III, VII.*

-B4b. Grammatical Analysis.

MRS. BISSIRI

An intensive study of grammar with emphasis on idiomatic French, original compositions, conversation, reading of contemporary French. Class conducted largely in French. Prerequisite: French A1 or equivalent. 2 hours. *WF, IX.*

5. Classic Drama.

MR. JONES and MRS. BISSIRI

A study of typical plays by Corneille, Racine and Molière, with collateral reports in French. Lectures in French. Prerequisite: French B3 or equivalent. First semester. *V.*

6. Seventeenth Century Prose.

MRS. BISSIRI

Study of Boileau, La Fontaine, La Bruyère, Descartes, Pascal, Bossuet, Fénelon, Mmes. de Sévigné, La Fayette and Mainenon; lectures and collateral study in French upon the age of Louis XIV. This and all following courses conducted in French. Second semester. *V.*

7a-C107b. French Conversation.

MRS. BISSIRI

Practical course in French conversation based on modern colloquial usages. Prerequisite: French B3 and B4 or equivalent. 1 hour. *T or Th, X.*

9. Literature of the Eighteenth Century.

MR. JONES

A critical study of the French philosophers of the eighteenth century, with especial attention to Montesquieu, Voltaire and J. Rousseau. Collateral readings and reports by members of the class. Prerequisite: French C105 and C106. Required for French major unless D111 is taken. First semester. *IV. (Omitted in 1931-1932).*

10. Romantic School.

MR. JONES

An intensive study of the French poets of the early nineteenth century. Readings from Hugo, Lamartine, A. de Musset, and others. Collateral readings and lectures upon the period. Pre-

requisite: French C105 and C106. Required for French major unless D112 is taken. Second semester. *IV. (Omitted in 1932).*

D111. Le Moyen Age.

MR. JONES

Poetry of the middle Ages. Les chroniqueurs. Villon. Lectures upon the literary history of the period. Required for French major unless D109 is taken. First semester. *IV.*

D112. La Renaissance.

MR. JONES

Ronsard and the Pléiade. Rabelais and Montaigne. Poetry of Marot. Lectures. Required for French major unless D110 is taken. Second semester. *IV.*

D115. French Phonetics.

MRS. BISHOP

An advanced course for improving the technique of French pronunciation. First semester. 2 hours. *T, XII, XIV.*

GEOGRAPHY

Courses in this field are available at Scripps College.

GEOLOGY

B1a, B1b. Introductory Geology.

MR. WOODFORD

Dynamic, structural and historical geology. Prerequisite: High school chemistry or equivalent. Class, two hours a week; laboratory or field work, one period a week. Class, *WF, I*; laboratory, *W* or *Th, 1:15-4:15*. Laboratory fee, \$3.00 a semester.

B3. Determinative Mineralogy.

MR. WOODFORD

Prerequisite: High school chemistry or equivalent. First semester. Two laboratory periods. 2 hours. *A*. Laboratory fee, \$4.00.

C105. Crystallography.

MR. WOODFORD

Must be preceded or accompanied by Geology B3, unless taken upon the written recommendation of the Department of Chemistry or of Physics. First semester, 2 hours. *WF, V.*

C110. Petrology.

MR. WOODFORD

The study of rocks without the microscope. Prerequisite: Geology B1a, B3 and C105. Second semester. One class and two laboratory periods. *A*. Laboratory fee, \$4.00.

C107a-C107b. Invertebrate Paleontology.

MR. WOODFORD

Prerequisite: Geology B1b; recommended preparation: Zoology B11. Two class and one laboratory periods, first semester; one class and two laboratory periods, second semester. *A*. Laboratory fee, \$6.00 a semester. Given alternate years.

04. Field Geology.

MR. WOODFORD

Prerequisite: Geology B1b, C110. A summer course of three or six weeks. 3 or 6 hours. *A.*

11-D112. Petrography.

MR. WOODFORD

Refraction and double refraction; the optical indicatrix; study of minerals and rocks with the petrographic microscope. Prerequisite: Geology C105. Two class and one laboratory periods, first semester; one class and two laboratory periods, second semester. *A.* Laboratory fee, \$5.00 first semester; \$8.00 second semester. Given alternate years. (*Omitted 1931-1932*).

30, D231. Geological Investigation and Research.

MR. WOODFORD

3 hours. *A.* Laboratory fee, \$4.00 each.

GERMAN

a-A1b. Elementary German.

MISS WAGNER

The acquirement of a small working vocabulary. Constant ear-training, and as much practice in speaking as time permits. Daily exercises in reading and writing. The essentials of grammar. Etymology. Comment on German life and literature. *III.*

3. Elementary and Advanced German.

MISS WAGNER

Two years of German in one year. 6 hours. *V, VI.*

v-B3b. Advanced German.

MISS WAGNER

More advanced German language study through intensive reading and discussion of selected German works, with considerably extended reading in the field of the student's individual interest. Continued practice in German conversation. Some attention to an understanding of the cultural life of Germany, Austria and Switzerland. Prerequisite: German A1 or an equivalent. *II.*

19a, C109b. German Literature of the Nineteenth

Century.

MISS WAGNER

The drama since the time of Goethe. The evolution of the novel in the 19th century with special reference to modern prose fiction. Discussion and papers. Prerequisite: German B3 or equivalent. *V.*

3a-C113b. German Literature and Life.

A survey of German life and thought. Contemporary art and history. Works of general interest such as the Nibelungenlied, the lyrics of the troubadours, the writings of Martin Luther and some of the best modern German since the Reformation. Prerequisite: German B3 or equivalent. (*Omitted in 1931-1932*).

5. Goethe and His Times.

Either semester. *A.* (*Omitted in 1931-1932*).

HISTORY

A1a-A1b. The Development of Western Civilization.

MR. PITMAN and MR. COO

The evolution of civilization in Europe from antiquity to present, and its spread throughout the world. Attention is paid to the political, religious, intellectual, and economic forces of change. The aim is to lay a foundation for the understanding of contemporary problems. This course or its equivalent is normally a prerequisite for advanced courses in history. Two sections. *III, IV.*

B7a-B7b. English History.

MR. PITMAN

A survey of the development of the main features of civilization in England and the British Empire. Emphasis is laid upon the evolution of religious, intellectual, and economic forms as well as the growth of political institutions. Thus the course is largely a study of the cultural heritage of America. First semester, Great Britain to 1660; second semester, Great Britain and the Empire since 1660. *II.*

B8. The Westward Movement in American History.

MR. COOPER

A study of the process of settling frontier areas in America since the beginning of colonization in America and of the influence of frontier environments upon the various aspects of American civilization—political, diplomatic, economic, and social. Second semester. *I.*

C113a, C113b. Modern European History.

MR. COOPER

Following an introductory survey of the forces operating in the society of the eighteenth century a study is made of the French Revolution and the Napoleonic period. The development of European nations is traced in its political and cultural aspects with emphasis upon international relations, the World War, the League, and problems of reconstruction. First semester to 1878; second semester 1878 to the present. *VII.*

C117a, C117b. The History of the Greeks and Romans.

MR. ROBERTS

Grecian civilization from its establishment until the Roman conquest, followed by a study of Rome from the founding of the Eternal City until the reign of Justinian. Emphasis is placed upon the civilization and literature of the Greeks and Romans. *V*

D119. American Diplomatic History.

MR. COOPER

An examination of American policy in such matters as neutrality and freedom of the seas, fisheries, commercial relations, etc.

Monroe Doctrine, recognition of new governments, expatriation and protection of citizens abroad, immigration, disarmament, arbitration and international associations. First semester. *I*.

125a-D125b. Economic and Social History of the United States.

MR. PITMAN

A study of agrarian, commercial, and industrial conditions which helped determine the character and importance of the major political and social problems of American colonial and national history. Attention is given to the economic foundations of American imperialism. Lectures, investigation of topics, and reports. *A*.

132. Development of Social Classes in the United States.

MR. VOORHIS

A study of the social and economic forces in American life which have brought about the dominance of various social classes at different periods in the history of the nation; and a consideration of the evolution of the United States from a nation dominated by the presence of a frontier of free land to a nation laboring with the complexities of a highly industrialized civilization. Second semester. *T, VI; Th.4-6*.

251, D252. The History Guild. MR. PITMAN and MR. COOKE

An association of students and teachers into which seniors concentrating in historical studies are invited. Opportunity is offered to synthesize previous studies with directed reading in areas of historical literature not covered in formal courses. Historiography, schools of interpretation, inter-relations of the Social Sciences, and methodology will be within the scope of interest. 2-4 hours. *A*.

ITALIAN

31a-B31b. Elementary.

MR. JONES

Essentials of grammar. Special emphasis upon pronunciation. Composition and dictation. *XI*.

133. Boccaccio and Petrarch.

MR. JONES

Selections from the Decamerone and other works of Boccaccio. Study of the Canzoniere of Petrarch. First semester. *A*.

134. Dante.

MR. JONES

Intensive study of the Inferno, with selections from the Purgatorio and Paradiso. Collateral readings with reports in Italian. Prerequisite: C133 or C135. Second semester. *A*.

MATHEMATICS

A1a, A1b. Introduction to College Mathematics.

DEPARTMENTAL STAFF

The objective of this course is to prepare students for work in calculus the following year. The subject matter covered with particular students will be adjusted to meet their needs as evidenced by their previous preparation. Beginning with the year 1932-33 this course or its equivalent will be prerequisite to further work in the department. To be offered at two periods and in as many sections in each period as the registration calls for. *IV* and *V*.

B3a, B3b. Algebra.

MR. JAEGER

Fundamental operations and quadratic equations; complex numbers; ratio, proportion and variation; binomial theorem; elementary functions; series; logarithms; theory of equations. Prerequisite: One and one-half years of high school algebra. *VI*.

SB11. Surveying.

MR. TAYLOR

Use and adjustment of surveying instruments. Methods of making and mapping surveys for various purposes. Given during summer session at the Bluff Lake Camp of Pomona College. Prerequisite: Plane trigonometry. 6 hours.

C115a-C115b. Differential and Integral Calculus.

MISS BERRY and MR. JAEGER

A continuation of Mathematics B13. (*Catalog of 1930-1931 I and IV*).

D119. Theory of Equations.

MR. JAEGER

Theory and solution of higher algebraic equations, employing determinants, elimination and linear transformations. First semester. *II*.

D120. Differential Equations.

MR. JAEGER

A general course in the theory and solution of differential equations. Second semester. *II*.

D121a-D121b. Advanced Calculus.

MR. TAYLOR

Some of the subjects studied are partial differentiation, elliptic integrals, line, surface, and volume integrals, Green's Theorem, Stokes' Theorem, and Fourier's series. *III*. (*Omitted in 1932*).

D127a-D127b. Projective Geometry.

MR. TAYLOR

A study of the principles of projective geometry, with special attention to the foundations of geometry. *III*.

GRAPHICS

A, A7b. Engineering Drawing.

MR. TAYLOR

A beginning course in mechanical drawing and descriptive geometry. Includes lettering, use of instruments, orthographic projection, and the making and interpreting of working drawings. 1 or 2 hours. *TTh* or *F*. 1:15-4:10. Fee, \$2.00 per hour.

A, B9b. Engineering Drawing.

MR. TAYLOR

A more advanced course in mechanical drawing and descriptive geometry. Treats of orthographic and perspective projections, machine and structural details. Prerequisite: Engineering A2 or its equivalent. 1 or 2 hours. *TTh* or *F*. 1:15-4:10. Fee, \$2.00 per hour.

12a, C112b. Engineering Drawing.

MR. TAYLOR

Design of cams, gears, machine parts and simple trusses. 2 hours. *TTh* or *F*. 1:15-4:10. Fee, \$2.00 per hour.

MILITARY SCIENCE

The college maintains an Infantry Unit, Senior Division, of the Reserve Officers' Training Corps, established under the National Defense Act for the general purpose of qualifying students for positions of leadership in time of national emergency. The courses include classroom instruction covering the basic technical knowledge required for appointment as commissioned officers of the United States Army and military drills designed to improve the posture and physical coordination of the student. Special emphasis is placed on the development of qualities of leadership, and the poise required by the student and his practical experience in the art of command may be applied in many walks of life. Students who successfully complete the four-year course will be tendered commissions as second lieutenants in the Officers' Reserve Corps.

The instructors in the department are officers of the Regular Army detailed for duty at the college by the War Department. The equipment provided includes a set of instruments for a 28-piece band, an ample supply of weapons including rifles, automatic rifles, machine guns, a one-pounder gun and Stokes Mortar, all of which are available for the use of students without cost. Allowances of ammunition for target practice are also furnished without charge.

The four-year course is divided into the basic course, consisting of the first two years, and the advanced course, consisting of the last two of the third and fourth years. Enrollment in either course is voluntary but, when a student has elected either the basic course or the advanced course, completion of the course elected becomes a prerequisite for graduation. Students who have had military training in junior units of the R. O. T. C. may be admitted to advanced standing. In general two years work in a junior R. O. T. C. unit may be required for admission to the second year basic course and a

minimum of three years work in a junior unit for admission to the first year of the advanced course.

The basic course is open to all physically fit male students who are American citizens. Enrollment does not involve any obligation for military service nor does it interfere with the student's participation in sports. Uniforms are issued without charge to students enrolled in the basic course.

Enrollment in the advanced course is limited to selected students who have completed the basic course or its equivalent and who enter into an agreement to attend one summer instruction camp for a period of six weeks. In consideration of this agreement students receive from the government cash allowances equivalent to a scholarship of about \$100.00 per year. All necessary expenses in connection with the summer camp, including transportation to and from camp, are provided by the government.

A1a-A1b. First Year, Basic Course.

MAJOR FECHT

National Defense Act and the R. O. T. C.; military courtesy and discipline; military hygiene and first aid; close and extended order drill and ceremonies; rifle marksmanship; scouting and patrolling. 1½ hours. Class, *M, I*; Drill, *M, 1:15-3:05*.

B3a-B3b. Second Year, Basic Course.

CAPTAIN BACC

Automatic rifle; musketry; drill and command; scouting and patrolling; combat principles of the rifle squad. 1½ hours. Class, *S, VI, or F, IX*. Drill, *M, 1:15-3:05*.

C105a-C105b. First Year, Advanced Course.

CAPTAIN BACC

Map reading and military sketching; interpretation of aerial photographs; drill and command; machine guns; 37mm gun and trench mortar; combat principles of the rifle section and platoon. 3½ hours. *III or VII and M, 1:15-3:05*.

D107a-D107b. Second Year, Advanced Course.

MAJOR FECHT

Infantry weapons; military law and Officers' Reserve Corps regulations; military history and policy; military correspondence and administration; field engineering and camouflage; drill and command to qualify the student to perform the duties of platoon and company commanders; combat principles of the rifle and machine gun companies and howitzer platoon. 3½ hours. *IV and M, 1:15-3:05*.

MUSIC

THEORY AND APPRECIATION

A1a-A1b. Elementary Harmony.

MR. ALLAN

A study of intervals, scales, tonal magnetism, primary triads, dominant seventh and ninth chords, and all non-chordal tones. Harmonization of melodies. Prerequisite: Elementary knowledge of the pianoforte. Two sections, *III, IV*.

-A2b. Sight Singing and Dictation.

A study of scale tones and their relationships. Rhythmic, melodic, and simple harmonic dictation, with a view to discriminative listening and proficiency in sight reading. Students majoring in music are expected to take this course simultaneously with A1, with which it is closely correlated. *V. 2 hours credit.*

-B3b. History and Appreciation.

MR. ALLEN

A course tracing the development of music from ancient times to the present; biographical sketches of famous composers with description of their principal works. Recitals, to aid in appreciation, are given frequently. Illustrations on the victrola and duo art piano. *2 hours. MF, XI.*

-B5b. Advanced Harmony.

MR. ALLEN

Secondary harmonies. Modulation and chromatically altered chords. Extensive keyboard drill. Creative work is encouraged from the beginning. Harmonization conducted on a melodic basis. Prerequisite: Music A1 or equivalent. *VII.*

-B6b. Advanced Dictation.

A continuation of A2a-A2b, employing triads, seventh chords and modulation. Dictation in two, three, and four part harmony. To be taken simultaneously with B5 by music majors. Prerequisite: *2. IX, MF. 2 hours.*

-7a-C107b. Counterpoint.

MR. ALLEN

A study of Simple Counterpoint in the five species with an aim to develop technique in voice leading. Two and three part inventions. Creative work in the simple forms of Free Composition is undertaken during the course. Prerequisite: Music B5. *VI.*

-3a-C113b. Orchestration.

MR. CLOKEY

A study of orchestral instruments, their capabilities and limitations, and their use singly, and in groups; arranging of compositions for Symphony; "American" and "Theatre" Orchestra; the study of scores; the theory and practice of conducting. This course is especially designed to meet the needs of a student desiring the State Certificate. Prerequisite: Music B5. *III.*

-8a-D108b. Free Composition.

MR. ALLEN

Advanced original work in the shorter free styles followed by the Sonata form. Prerequisite: Music C107. *A.*

-9. Public School Music Methods.

MR. COLEMAN

Selection, presentation and interpretation of the song. Methods of developing sight-singing and other technical problems. A brief study of child psychology. Teaching plans with a bibliography of material. First semester. *2 hours. A.*

APPLIED MUSIC

1. Class Instruction (No special fees).

B7a, B7b. Choral Singing.

MR. LYMAN

The study and production of choral music, especial attention being given to diction, phrasing, content of the works dealt with, and an understanding of musicianship as applied to choral singing. The Class will be organized as the College Choir and students will sing and practice on Mondays, Wednesdays and Fridays from 11:55 to 12:20, and on Tuesdays and Thursdays from 11:30 to 12:20. 1 hour. The course may be repeated for credit.

B9a-B9b. Ensemble Playing.

MR. UNIAK

The principles of ensemble playing approached through practice, with emphasis on accuracy in technic, intonation, rhythm and tone quality; practice in conducting from complete and condensed conductor's scores. Three hours of attendance weekly; one hour credit. The course may be repeated for credit. A.

D110. Church Music.

MR. CLOUTY

The history and traditions of the various liturgical and non-liturgical church services of today; the best means of interpreting them. Registration limited to advanced students in organ and voice. Two lecture-laboratory periods per week. One hour credit. Second semester. A.

II. Individual Instruction (Special fees charged).

The student in applied music under individual instruction will be enrolled for credit toward the Bachelor of Arts degree only upon the written recommendation of the Chairman of an Examining Committee and the Head of the Department, and upon the subsequent favorable action of the Classification Committee. This recommendation is based upon the degree of ability and advancement shown in Proficiency Tests. In addition the work in applied music must be accompanied or preceded by A1 or A2. A second year or more of credit is possible when the applied course is accompanied or preceded by B5 or B6. A minimum of two half-hour lessons weekly is required for which two hours' credit is allowed. No college credit is given for work below "B" (Sophomore) grade. (As many Freshmen are able to pass the prerequisite tests allowing them to take "B" grade work, students of all classes are advised to confer with the Head of the Department regarding eligibility for credit.) Not more than 12 hours' credit in applied music may be counted toward the Bachelor of Arts degree unless the student is able to present a total of 8 hours of "D" (Senior) grade work in any subject. In this case 16 hours' credit may be allowed. Proficiency tests are required only of students desiring credit toward the Bachelor of Arts degree.

MR. LYMAN

MR. CLOKEY

MR. OLIVE

MR. UNIACKE

MR. GRAY

MR. GRAY

Orchestral Instruments

Lessons on other string or wind instruments may be arranged privately through the office of the Music Department.

PHILOSOPHY

Introduction to Logic.

MR. IREDELL

study of the elements of deductive and inductive reasoning with special emphasis upon the problems of definition, the nature and use of scientific hypotheses, probability, and deductive and inductive fallacies. Each semester. *VI*.

Ethics.

MR. DENISON

study of the nature of morality, the problem of human freedom, the standard of judgment of right and wrong and of social and individual judgments on moral questions. An examination of conscience and reason. First semester. *V*.

a, C125b. History of Philosophy.

MR. IREDELL

study of the main currents of thought from the earliest Greek thinkers through modern philosophic thought. The course is designed to be a general and cultural introduction to philosophy through history. *I*.

1. Introduction to Philosophy.

MR. IREDELL

an introductory consideration of the meaning and method of philosophy, an examination of the thought problems which emerge in astronomy, geology, physics, biology and psychology and a review of some of the main philosophic estimates of life. Second semester. *V*.

1. Philosophy of Evolution.

MR. DENISON

study of the nature of the evolutionary process, with examination of Darwin's idea of evolution, and later theories, in their scientific and metaphysical aspects, such as mechanism, teleology, creative evolution, and the place of man and value in the order. First semester. *VI*.

1. Theory of the Self in Contemporary Philosophy.

MR. IREDELL

a critical survey of contemporary views about the nature of the self, considering such problems as the definition of the term, the nature of self-knowledge, and the place of selves in reality. First semester. *VII*.

D122. Philosophy Since 1900.

MR. DENN

A study of contemporary philosophic thought through study of the main modern thinkers with special reference to the dominant ideas of the civilization of today. First semester.

D124. Philosophy of Religion.

MR. DENN

An examination of the human aspects and the metaphysical foundations of religion, the relation between scientific and religious conceptions of God, the world and immortality. Second semester. *V*.

D132. Philosophy of State and Law.

MR. DENN

A philosophical study of the nature and function of the state and its basis in human nature, together with an examination of the philosophies of democracy, of the economic order of internationalism and of law. Background in Social Psychology and Political Science required. Second semester. *IV*.

PHYSICAL EDUCATION

MEN AND WOMEN

A student may count toward graduation not more than one hour per semester in "sports" and "activities" during his Lower Division years, and not more than one-half-hour per semester during his Upper Division years.

C126. Community Health.

MISS KEENE

A brief survey of the field of public health in the United States. Environment and other contributory causes of disease; conservation of child life. Modern scientific hygiene and the correlation of the total health teaching program. First semester. 2 hours. *TTh, IV*.

C127. Playground Theory and Activities.

MR. HITT

A study of the organization of the school and the public playground, the types of leadership, and types of games best suited for elementary use. A study of the more complex games, the organization of tournaments, and the arrangement of schedules. A study of school and public programs of play, and the construction of school and public play grounds. 2 hours. First semester, *WF, IX*.

C128. Nature and Function of Play.

MISS KEENE

The biological interpretation of play and the function of play in growth, development and social adjustment. Methods of leadership and organization of play activities to bring out proper habits, attitudes and judgments. Second semester. 2 hours. *TTh, II*.

C130. Kinesiology.

MISS BIGLOW

Body structure considered in relation to problems of physical education; the mechanics of joint movement and its application in selected activities. Second semester, *I*.

1. Theory and Application of Remedial Exercises.

MISS BIGELOW and MR. STREHLE

study and treatment of functional and structural abnormal anatomical conditions. Laboratory work including prescription of special exercises, methods of examination, and massage. Prerequisite: C130. First semester *MW, I*; and laboratory *A*.

3. History and Principles of Physical Education.

MR. NIXON

limited to Seniors majoring in Physical Education. Second semester. *VII*.

6. Physiology of Exercise (Applied Physiology)

MISS BIGELOW

The application of human physiology to physical education activities. Problems in the phenomena of muscle function, fatigue, nutrition, circulation, coordination, growth, and training. Second semester *TTh, IV*; and laboratory *A*.

MEN

Students are assigned to courses in sports, gymnastics, or corrective exercises according to their needs as determined by physical examinations and physical efficiency tests. Complete freedom in the choice of activities is permitted only to men who maintain acceptable standards in health, physical development, and physical efficiency. Among the minimum requirements of the Department are good posture, ability to swim, elementary skill in self defense or gymnastics, and proficiency in such fundamental activities as running and jumping.

A1b. Sports, Gymnastics or Corrective Exercises.

THE STAFF

required, Freshman year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A*.

A2b. Gymnastic Exercises.

MR. STREHLE

required of Freshmen not taking military. $\frac{1}{2}$ hour. *A*.

Hygiene.

MR. NIXON

each semester. 2 hours. *TTh, VI*.

B3b. Sports or Gymnastics.

THE STAFF

required, Sophomore year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A*.

B4b. Sports.

THE STAFF

required of Sophomores not taking military. Sophomore year. $\frac{1}{2}$ hour. *A*.

C15a-C105b. Sports.

THE STAFF

required, Junior year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A*.

C17a-C107b. Sports.

THE STAFF

required, Senior year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A*.

D219a-D219b. Teaching of Physical Education Activities.

MR. HEATH, MR. STREHLE, and MR. MERRITT

This course is devoted mainly to methods in coaching and supervising athletics. 2 hours. *A*.

WOMEN

A medical and physical examination is given all entering students with subsequent posture tests. Physical activities are allowed or prescribed as the result of these examinations. During the Freshman and Sophomore years, two hours a week each semester of fundamental activities are required. This requirement may be met by participation in Gymnastics, Dancing, Remedial or Games and Stunts. Students may have freedom of election in sports in so far as medical and physical examinations warrant, but must include during the Freshman and Sophomore years one individual sport, one team or group sport and one semester of either clogging, folk, or natural dancing.

A5. General Hygiene.

MISS KELLY

2 hours. Each semester. *TTh, VI*.

A11a-A11b. Fundamentals.

THE STAFF

Required, Freshman year. $\frac{1}{2}$ hour. *MW, VII or XIII*.

A12a-A12b. Sports and Dancing.

THE STAFF

Required, Freshman year. $\frac{1}{2}$ to 1 hour. *A*.

B13a-B13b. Fundamentals.

THE STAFF

Required, Sophomore year. $\frac{1}{2}$ hour. *TTh, VI or XIV*.

B14a-B14b. Sports and Dancing.

THE STAFF

Required, Sophomore year. $\frac{1}{2}$ to 1 hour. *A*.

C115a-C115b. Sports and Dancing.

THE STAFF

Required, Junior year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A*.

C117a-C117b. Sports and Dancing.

THE STAFF

Required, Senior year. $\frac{1}{2}$ to $1\frac{1}{2}$ hours. *A*.

C119a-C119b. Methods in Coaching and Supervising Sports.

MISS KELLY

1 hour. *W, XI*.

PHYSICS**A1a-A1b. Introduction to Physical Science.**

MR. TILESTON and MR. HAUF

A non-mathematical course intended for those who wish to obtain a knowledge of the fundamental facts, theories and applications of physics. The lectures will be illustrated by numerous experimental demonstrations and the subject will be developed from the basis of the electron structure of matter. *V. F.* \$5.00 each.

B2b. General Physics**MR. TILESTON**

study of the phenomena and laws of mechanics, wave motion, sound, heat, magnetism, electricity and light. This course is designed to furnish a working knowledge of the basic principles of physics and is planned especially for those students who expect to continue their technical studies in physics, chemistry, engineering or medicine. Prerequisite: Trigonometry. *I*.

B4b. Physical Measurements.**MR. TILESTON and ASSISTANTS**

quantitative laboratory work in the subjects indicated in Course 2a-B2b. Must accompany B2a-B2b. *W* and *Th*, 1:15-4:15. 1 or 2 hours. Fee, \$3.00 each hour.

C11a-C111b. Electricity and Magnetism.**MR. TILESTON**

course in theoretical electricity and magnetism, a study of the fundamental laws underlying resistance, self and mutual inductance, and capacity in both direct and alternating current circuits. Prerequisite: Calculus and Physics B2, B4. 3 hours. *A*.

D19a-D109b. Electrical Measurements.**MR. HAUPT**

laboratory in electrical and electromagnetic measurements; including the calibration of electrical measuring instruments, measurement of magnetization, resistance, inductance and capacity. Opportunity will be given for work in pyrometry, photometry and thermionics. Prerequisite; Physics C111a-C111b preceding or accompanying this course. 1 or 2 hours. *A*. Fee, \$4.00 each hour.

D13a, D113b. Analytic Mechanics.**MR. TAYLOR**

study of force and motion with special reference to engineering problems and structures. Prerequisite: A knowledge of calculus. *VII*.

D115a-D115b. Physical Optics.**MR. HAUPT**

the fundamental laws of geometrical optics, the wave theory of light, interference, diffraction, polarization, electromagnetic theory of light, reflection and refraction, dispersion, magnetooptics, theory of relativity and introduction to the subject of spectroscopy and atomic theory. Prerequisite: Physics B2, B4 and Calculus. *A*.

D117a-D117b. Optics Measurements.**MR. HAUPT**

quantitative verification of the laws of geometrical optics, interference, diffraction, polarization, dispersion and refraction, photometry and photography. Special emphasis will be given to the work in experimental spectroscopy. Laboratory to accompany D115. 1 or 2 hours. Fee, \$4.00 per hour. *A*.

D10. Problems for Investigation.**MR. TILESTON and MR. HAUPT**

for majors in the department. May be repeated for credit. Each semester. 1 to 3 hours. *A*. Fee, \$1.00 to \$8.00.

POLITICAL SCIENCE AND LAW

INTRODUCTORY COURSES

A1a, A1b. The Foundations of Government.

MR. ST

(Omitted, 1931-1932).

A2a, A2b. Introduction to Political Science.

MR. SAUN

An analysis of the process of politics, from the individual through his political groupings into the various phases of political legislation, administration, and adjudication; with a view to developing insight into the nature of political control and the problems of modern government, and establishing bases for critical appraisal and intelligent activity in the field of public affairs. 2 hours. *WF, XI*, with third hour at the pleasure of the instructor. *A.*

B3a, B3b. Contemporary Governments.

MR. JI

Modern solutions to problems in the field of political control. The character, institutional forms, and political practice of the principal contemporary foreign governments with special attention to English government. First semester. American government including a study of the principles and problems of American national, state and municipal polity. Second semester. *V.*

C101. Principles of Government.

MR. SRY

(Omitted, 1931-1932).

ADVANCED COURSES

Seven or eight hours work in the introductory courses, listed above, or the consent of the instructor, is an absolute prerequisite for these courses.

C103. Municipal Problems.

MR. SRY

(Omitted, 1931-1932).

C104. Political Institutions.

MR. AT

Consideration of the more important institutions of popular government and of the efforts to adapt them to increasingly complex conditions. Second semester. *VI.*

C105. Introduction to Law.

MR. G. S. BURESS

The development of American law and legal institutions with some analysis of the rights and liabilities arising from the more common legal relationships. First semester. *I.*

C108. Problems of International Relations.

MR. AT

The formulation and control of foreign policy in a democracy; the treaty-making power; contemporary problems arising from competitive national interests including the control of economic imperialism; the "outlawry of war"; and international organization. First semester. *II.*

12. Public Opinion.

MR. STORY

(Omitted, 1931-1932).

13. Political Parties.

MR. SAIT

Analysis of the problem of getting candidates and policies accepted in large democratic communities with diversified social and economic interests. First semester. *VI.*

14. Constitutional Law.

MR. G. S. BURGESS

An examination of the Constitution of the United States and the decisions of the Supreme Court upon questions arising thereunder. Second semester. *I.*

18. International Law.

MR. SAIT

The nature, sources and development of international law; its function in the international community; the rights and duties of states; pacific and belligerent procedure for the protection of rights; the League of Nations and the Permanent Court of International Justice. Second semester. *II.*

THE READING PROGRAM IN POLITICAL SCIENCE¹

A student concentrating in the Division of Social Science who elects Political Science as his field of intensive study will be expected to make the following reading program the dominating feature of his upper division work. It represents a possible twenty-four hours of credit in the department with an additional six hours contingent upon the completion of summer courses of reading. The amount of credit achieved by any particular student will depend upon an appraisal of his work made at the end of his Senior year. A feature of this program — one that imparts organization and direction to the student's work as a whole — is its incorporation of advanced departmental courses as contributing elements; from four to six of such courses must be completed by each person registering in the program. It is also a feature of the program that a student who registers for it shall meet regularly in a group with the departmental faculty for reports, discussions, and the planning of further reading.

II, C152. Reading in Political Science.

MR. G. S. BURGESS, MR. SAIT and MR. SAUNDERS

The first section of the program is offered to Juniors, the second to Seniors. In each registration the departmental course or courses, if not regularly carried by the student will appear on his registration card in parenthesis after the entry proper to the program, e.g., C105, C108).

The opportunities of the program as a whole are offered only to students concentrating in the Division of Social Science who elect Political Science as the field of intensive study. A student concentrating in the Division who elects some other field for intensive study may, by arrangement, on the recommendation of the department concerned, complete one or more of the sections of the program as outlined above, and receive proportionate credit.

D251, D252. Reading in Political Science.

MR. G. S. BURGESS, MR. SAIT and MR. SAUNDERS

1. *Political Thought*: The great classics of Political Science from Plato's *Republic* to the significant works of contemporary writers.

2. *Governmental Institutions*: Three lines of reading chosen from the following to meet individual emphases:

- a. American Government.
- b. Foreign Governments.
- c. Comparative Municipal Government.
- d. International Political Institutions.
- e. Comparative Legal Institutions.
- f. Public Opinion.
- g. Public Administration.

3. *Political Biography*: The lives of great public leaders, with some emphasis upon those of the United States and Great Britain. "Works" and autobiographies will be included.

4. *Bibliography and Methods*: A survey of bibliographical sources in selected fields; methods of investigation including historical and technological contributions of history, law, sociology, psychology and statistics. 24-30 hours. *A*.

PSYCHOLOGY

B1 is prerequisite to all further courses in the department.

B1. *Elements of Psychology*. MR. EWER, MR. ELLIS and MR. ROSS. The fundamental facts and laws of the mind. Principles of sensation, perception, memory, thought, feeling, emotion, instinct and will. The relation of mental processes to the nervous system and to action. Each semester. First semester, Mr. Ewer, *V*; Mr. Ellis, *VI*; Mr. Ross, *III*, *IV*; second semester, Mr. Ellis, *V*; Mr. Ewer, *V*; Mr. Ross, *VI*.

C105. *Individual Differences*. MR. ELLIS and MR. ROSS

A study of individual differences in mental traits arising from race, sex, family and maturity. First semester, *III*.

C106. *Problems of Psychical Research*. MR. ELLIS and MR. ROSS

The mysterious phenomena of the mind presented in the light of scientific psychology. The subjects considered include hypnosis, anesthesia, automatism, illusions and hallucinations, hypnotism, temporary occultism and spiritualism. Second semester, *V*.

C107. *Educational Psychology*. MR. EWER and MR. ROSS

Practical applications of psychology to education. The inherent nature of the learner; principal features of the learning process; principles of educational discipline; methods of mental measurement. Each semester. First semester, *VII*; second semester, *III*.

08. Applications of Psychology. MR. ROSS

A critical study of the fundamental principles underlying all applied psychology together with their application in various fields. First semester, *VI*; second semester, *V*.

12. Social Psychology. MR. EWER

Mental processes underlying social order and progress; the individual as the social unit; collective forms of behavior. First semester. *IV*.

16. Comparative Psychology. MR. ROSS

An intensive study of the methods used and the results obtained in the field of animal psychology. First semester. Class, *MW, VII*; laboratory, *W, 1:15-4:10*. Laboratory fee, \$2.00.

18. Experimental Psychology. MR. ROSS

A laboratory course in psychology accompanied by lectures and discussions of the principles of scientific method used in psychological investigations. Second semester. Class, *MW, VII*; laboratory, *W, 1:15-4:10*. Laboratory fee, \$2.00.

09. Advanced Psychology. MR. ELLIS

A study of the various systematic points of view in contemporary psychology, principally those of structuralism, functionalism, behaviorism and mentalism. 2 hours. First semester. *Th. 4:00-5:00*.

17. The Nature and Measurement of Intelligence. MR. ELLIS

A study of the nature of intelligence and the principles and methods of intelligence testing with special emphasis upon the method of giving the Stanford Revision of the Binet Tests. Second semester. *VII*.

40. Investigation of Psychological Problems. MR. EWER

A study of certain psychological problems. The topics change from year to year. 2 hours. Second semester. *Th. 4:00-6:00*.

PUBLIC ADDRESS

A1-A1b. English: An Introductory Course. MR. SCOTT

(In cooperation with the Department of English)

The fundamental principles of literary criticism and interpretation together with reading and study of specimens of the more important literary types; instruction and practice in writing and speech. 4 hours. Prerequisite for all other departmental courses. Men; *WF, I*; section meetings at *II*; Women: *TTh, II*; section meeting at *I*.

a-B32b. Public Address. MR. SCOTT

Exercises in voice development and platform deportment. Training in analysis of subjects, selection and arrangement of material, psychological adaptation of material and treatment to specific audiences. 2 hours. *MW, III*.

B33a-B33b. Principles of Reading.

MR. SO

Study of the technique of effective oral interpretation of literature. Application of this technique in the reading of a variety of selection of literary types. 2 hours. *MW, V.*

B35a, B35b. Argumentation and Debate.

MR. SO

Study of the principles of argumentation and practical application of these principles in class debates. Debate subject for the year analyzed and debated. 2 hours. *TTh, IV.*

C131a-C131b. Advanced Public Address.

MR. SO

Training in the construction and delivery of formal addresses. Prerequisite: Public Address B32 or equivalent. 2 hours. *MW, VII.*

C134a, C134b. Reading of Dramatic Literature.

MR. SO

The intensive study of a limited number of standard plays, with emphasis on dramatic values in character and plot. Interpretative reading of these plays in class. Recital programs before the class. Prerequisite: Public Address B33 or equivalent. 2 hours. *TTh, VI.*

RELIGION

A1. Orientation in Religion.

MR. BRO

A study of the influence of modern thought in the interpretation of religion and of the contribution of religion to civilization. 2 hours. Each semester. *TTh, VI.*

B3a, B3b. The Contribution of the Hebrews to Religion.

MR. BRO

In the first semester, the development of religious ideas and practices among the Hebrews from the beginning of their history to the time of the Eighth Century Prophets. In the second semester, the contributions of the Great Prophets of Israel and Judah to ethics and religion. 2 hours. *MW, VII.*

B6. Introduction to New Testament.

MR. AN

A careful study of such questions as date, authenticity, authorship, composition, integrity, purpose and contents of the documents which comprise the New Testament. First semester. 2 hours. *TTh, XII. (Omitted in 1931-1932).*

B7. The Teachings of Jesus.

MR. AN

Special emphasis is laid on Jesus' conception of the Kingdom of Heaven, his revelation of God and his doctrine concerning his own person and his claims on the fealty of men. Second semester. 2 hours. *TTh, XII. (Omitted in 1931-1932).*

B8. The Evolution of the English Version.

MR. AN

A study of the various texts and versions by which the Bible has come to be a literary possession of the English-speaking race. First semester. 2 hours. *TTh, XII.*

The First Interpreters of Jesus.

MR. HAND

A study of the teachings of Paul and the general epistles as they have modified and interpreted Christianity. Second semester. 2 hours. *TTh*, XII.

19a, C109b. The Religious World.

MR. BROOKS

This course surveys the origin and growth of religious experience, the characteristics of a fully developed religion, the rise of modern religious ideas, and the place of religion in social reconstruction. *III*.

25a, C125b. History of Religions.

A consideration of the nature of religion as exemplified in the essential facts of early religions, followed by a somewhat detailed study of existing religious systems, Christian and non-Christian, their great personalities, their chief teachings and influences. (*Omitted in 1931-1932*).

101a, D201b. Problems of Religion.

MR. BROOKS

Questions arising from the interrelations of religion with science and ethics. *V*.

(Note: For Philosophy of Religion, *see* Department of Philosophy, D124.)

SOCIOLOGY

1a-B21b. Elements of Sociology.

MR. KIRK and MR. J. STEWART BURGESS

An introduction to the study of society. Designed to give the student an orientation in the social sciences and to develop a critical, comparative, and constructive attitude toward contemporary social problems. Application of sociological principles to modern social problems, such as race prejudice and movements of population, urbanization and neo-Malthusianism, marriage and divorce, poverty and crime, child welfare, leisure time activities. Four sections. *IV* and *VI*.

25. The Control of Poverty.

MR. J. STEWART BURGESS

A scientific approach to the problem of dependency. Conditions of poverty and pauperism. The development of poor relief, outdoor relief, and the poorhouse. Special classes of dependents: The aged, the insane, the feeble-minded, the sick, drug addict, the unemployed. Preventive agencies and methods. First semester. *II*.

27. Criminology.

MR. KIRK

The nature and evolution of crime; the organic and environmental causes of crime; an examination of criminal procedure. The historical development of the principles and methods of punishment. The new scientific approach to the treatment of delinquents in the courts and in penal institutions. Prevention of delinquencies through control of the causes. First semester. *V*.

C108. Labor Problems.

MR. K.

A survey of labor problems and causes of industrial unrest, collective bargaining and trade unionism, child labor, scientific management, labor legislation, methods of promoting industrial peace, problems of reconstruction. Second semester. *V.*

C128. Social Aspects of Race Relations.

MR. J. STEWART BURGESS

The origin and meaning of race. Race and culture. Race conflict. Contemporary friction areas in race relations. American race problems. Factors making for adjustment between races. Second semester. *II.*

D131. Theories of Social Reform.

MR. J. STEWART BURGESS

A study of various proposals for social reconstruction including: The Utopians, Marxian Socialism, Fabian Socialism, Syndicalism, and Anarchy. An investigation of contemporary experimental social reorganization: The British Labor Movement, The Fascist Regime, Soviet Russia and the Cooperative Movement in Europe and America. Registration limited to those concentrating in the Social Sciences and others who have special consent of the instructor. First semester. *III.*

D132. The Family.

MR. J. STEWART BURGESS

The evolution of the family. The family in its historical aspects; its functions and social status. The modern family. Underlying social conditions affecting the family since the industrial revolution, economic, political, religious and legal; present trends and prospects. Registration limited to persons concentrating in the Social Sciences and others who have special consent of the instructor. Second semester. *III.*

D251. Advanced Studies in Sociology.

MR. H.K.

Research in social problems and agencies. Various techniques which have been developed in sociological research will be used in making individual or group surveys for the purpose of demonstrating the relative merit, the special contribution and the definite limitations of the several tools of research. First semester. *A.*

D252. Contemporary Sociological Theory.

MR. H.K.

An analysis of the facts and forces involved in the organization and modification of society with special emphasis upon isolation, social distance, conflict and accommodation. A survey of the leading sociological theories, and an historical and analytical study of leading sociological thinkers as a basis for an understanding of society and its problems. Second semester. *A.*

SPANISH

a-A1b. Elementary.

MR. CROWELL

Essentials of grammar and pronunciation; readings from easy modern texts; writing from dictation; practice in speaking. *VII.*

i-B3b. Intermediate. Grammar Review and Modern

Readings.

MISS COGAN

A review of grammar with the translation of moderately difficult English into Spanish; conversation. Extensive reading of modern Spanish texts chosen to represent as many literary forms as possible; a part of this reading is done as outside assignments; Spanish history, geography, culture, etc., are stressed in class discussions as far as time allows. Prerequisite: Spanish A1 or equivalent. Two sections. *V, XI.*

03. The Theater of the Nineteenth Century.

MISS COGAN

Study of the works of such dramatists as Moratín, Martínez de la Rosa, Duque de Rivas, Gutiérrez, Hartzenbusch, López de Ayala, Bretón de los Herreros, Tamayo y Baus, Echegaray, and others. Required of students concentrating in Spanish. First semester. *VI.*

04. The Novel of the Nineteenth Century.

MISS COGAN

Study of certain of the works of Fernán Caballero, Pedro de Alarcón, Valera, Pereda, Galdós, Pardo-Bazán, Valdés, and Blasco Ibañez. Required of students concentrating in Spanish. Second semester. *VI.*

11a-C111b. Spanish Composition and Conversation.

MR. CROWELL

Intensive drill in written and oral expression; free composition; dictation; conversation, on assigned topics or extempore, with especial stress on the acquisition of a correct pronunciation and intonation, phonetics being used as an aid. This course is conducted, for the most part, in Spanish. *IV.*

13a, D113b. Literature of the "Siglo de Oro."

MR. CROWELL

In the first semester, the life and works of Cervantes, including an intensive study of the "Quijote"; followed, in the second semester, by a consideration of the dramatic writings of Lope de Vega, Tirso, Ruiz de Alarcón, and Calderón. Assigned outside readings and reports. Required of students concentrating in Spanish. *II.*

17a, D117b. Survey of Spanish Literature.

MR. CROWELL

The development of Spanish literature from the earliest times to the present. In connection with readings and reports opportunity will be afforded each student to work up phases of the subject in which he finds himself deficient. Required of students concentrating in Spanish. *III.*

SUMMER SESSION

Although the main work of the Summer Session formerly conducted by Pomona College has been transferred to Claremont Colleges, Pomona College still maintains summer work at Laguna Beach and Bluff Lake.

The Department of Zoology conducts work at the Laguna Beach Marine Laboratory, Professor W. A. Hilton, Director.

At the Pomona College summer camp in the San Bernardino Mountains, Professor Taylor gives theoretical and practical work in field surveying.

ADMINISTRATION

PUBLIC ASSEMBLIES

is the practice of the College to give opportunity for the consideration and expression of the common college interests. On Tuesday and Thursday at 10:00 a.m. a brief devotional chapel service is held.

Approximately once each month during the college year a special convocation is called for the consideration of topics of vital interest to the whole institution. Full attendance of both faculty and students is expected at these exercises.

The policy of the College is to urge the students to associate themselves for worship with the Claremont Church or those in neighboring communities. For this reason there is no regular appointment for College worship on Sunday, though many forms of religious activity are maintained in connection with the churches.

REPORTS ON SCHOLARSHIP

Once each week a report is called for from each instructor, in which he is asked to indicate such of his students as are doing good or bad work.

At or near the middle of each semester a report is made of all students doing failing or unsatisfactory work for the half-semester preceding.

At the end of each semester a complete report is made on every student. This report becomes part of the student's record and indicates the semester's standing in the courses for which he has been registered.

A student is dismissed for low scholarship on the following basis:

At the beginning of *any semester* if his deficiency in credits is equal to one-half or more of the hours for which he was registered in the preceding semester.

At the beginning of the *third semester* of the college course, if his deficiency in credits is five or more;

At the beginning of the *fourth semester* if his deficiency in credits is five or more;

At the beginning of the *fifth and succeeding semesters*, if at all deficient in credits.

Departure from the above procedure may be permitted in special cases by concurrent action of the Classification and College Committees.

PHYSICAL ATTENTION

The physical care of students is a matter of special concern to the College and the advantages of unusual attention and opportunity are offered. The climate of Southern California offers out-of-door life the year round. Supervision is given to athletics in all seasons. A regular physician is on the staff of Claremont Colleges, under whose direction every student on entering has a physical examination. Regular work in physical education is prescribed throughout the four years, and courses in Physiology and Hygiene are given. The medical advice of the College physician is ordinarily available free of charge to all students, subject to certain conditions of hours and location of residence, the college meeting these bills; provided that all nursing, surgical dressing, and medicines as well as medical service in chronic or contracted illness are at the expense of the ill or injured. *The college, however, reserves the right to discontinue this individual medical service at any time without previous notice.*

ATHLETICS. The direction and financial management of athletics rest with the Director of Athletics, who has associated with him as an advisory body the Athletics Council, composed of representatives of the faculty and three students. Under the general manager there is a student manager for each sport.

Alumni Field, consisting of about ten acres, has been developed by the alumni into athletic grounds admirably equipped and unsurpassed in the Southwest in beauty of setting. First-class tennis courts, an excellent track, baseball and football fields, also hockey and basketball courts are within the limits of the campus. The courses of the Indian Hill Golf Club are available, and athletic exercises and field sports are encouraged by the officers of the institution.

A swimming pool, of the standard size for water polo and fully equipped with modern appliances, is open to men.

Students are required to maintain a satisfactory standard of excellence in all their studies in order to represent the College in any of its athletic teams or other organizations coming before the public.

GENERAL REQUIREMENTS

Students are expected to be loyal to the spirit and purpose of the institution and to maintain regular attendance on all College appointments. Any student who falls below grade in scholarship

who, for any reason, in the judgment of the faculty or its other committees, is felt not to be a desirable member of the student body, may be dismissed without specific charges.

It is urgently pointed out to both students and parents that the value of a college education consists in no small degree in the fullest participation in the college atmosphere and life. It is important, therefore, that all absence through the college year should be avoided. Some of the most important of the college experiences are lost by absences on Saturday and Sunday, on which days are centered particular and vital phases of the common life, and it is therefore urged that over-Sunday visits at home or elsewhere be avoided.

LIVING CONDITIONS

All rooms in the College residence halls are rented for the College year. The charge for rent does not include the use of the halls during the Christmas and Spring vacations, when the halls are closed. The residence halls are opened the Saturday before the opening of the College year and closed the second day after commencement.

A deposit of \$10.00 is necessary to reserve a room and should accompany the application for the room. This amount is retained as a breakage fee, from which deductions will be made for individual and communal damages to the building, the balance being returned at the end of the year. Rooms are assigned to new students in order of application.

The College reserves the right to dismiss from a dormitory without rebate any student who becomes a disturbing or undesirable occupant.

RESIDENCE FOR MEN

The College is equipped with dormitory and dining hall facilities to accommodate all men students and it is expected that all men, not actually living at home will live in the college dormitories and board in *Frary*, the dining hall for men.

Dormitory and dining room privileges are provided only on the basis of an inclusive yearly charge for both board and room, the charge varying from \$400.00 to \$550.00 per year. This charge includes necessary furniture, rugs, bed linen and towels, the laundering of the same and the care of rooms. The only articles to be furnished by the student are covers for a single bed.

SMILEY HALL has both single and double rooms and suites for three rooms accommodating two students.

ON THE ELI P. CLARK MEN'S CAMPUS, the hall for freshmen is provided with suites of two rooms—study and bedroom—for two students. The other halls have both single rooms and suites.

RESIDENCE FOR WOMEN

It is assumed that, as far as possible, students will room at the College residence halls and board at the women's dining-room at Harwood Court. Any other arrangement for room or board must have the approval of the Dean of Women. Lists of approved rooms and boarding places for women are kept at the office of the Dean of Women. All rooms in the College residence halls are rented for the college year. Unless there is a written agreement to the contrary, it is assumed that rooms in private houses are rented for one semester. Change of rooms is made only by permission of the office of the Dean of Women.

HARWOOD COURT, the residence hall for women, in which is included the dormitory known as STRONG HALL, has both single and double rooms, as well as suites. The COTTAGES have double rooms. Each room is provided with the necessary furnishings, including rug for the floor; the only articles to be furnished by the student are towels, linen, and covers for a single bed.

BOARD. Dormitory and dining-room privileges are provided only on the basis of an inclusive yearly charge for both board and room, the rate varying from \$430.00 to \$500.00 per year.

EXPENSES

TUITION

Regular tuition, including all general privileges, Music Course Ticket, Library privileges, etc., per semester.....	\$1500
Tuition for students carrying less than twelve hours of work, for each such hour, per semester exclusive of above general privileges	150
Laboratory fees as stated after description of courses.	

CHARGES IN MUSIC

For those paying regular tuition:

For one half-hour private lesson in music per week, per semester

\$ 400

EXPENSES

93

each half-hour private lesson in excess of one per week, per semester	40.00
for those carrying less than twelve hours of college work, exclusive of work in music:	
one half-hour private lesson in music per week, per semester	60.00
each half-hour private lesson in excess of one, per semester	40.00
for Associated Students, per semester.....	5.00

This charge is made upon all regular students by action of the Associated Student Body. Recognizing the value of the activities supported by this fee, the College requires its payment and reserves the right to approve the budget for which it is spent.

FEES

Application fee, \$2.50.

Graduation fee, \$10.00.

Every student expecting to graduate at the end of any given semester must so indicate on his registration card for that semester and must include the graduation fee with the payment of his other fees at the time of such registration. Failure to indicate such expectation or thus to pay the graduation fee will automatically exclude from graduation that semester.

Laboratory fees range from \$2.00 to \$15.00. The exact fee for a given course is stated in connection with the description of that course under *Courses of Instruction*; in advanced courses only does it exceed \$10.00

A visitor's fee of \$10.00 per course is required from those visiting a course of study.

BREAKAGE DEPOSITS

Bacteriology and Plant Physiology, \$5.00 each.

Chemistry, \$10.00 for each course taken.

PRACTICE FEES

PIANO

One half-hour daily, per semester.....	\$3.50
One hour daily, per semester.....	6.00

GRAND PIANO

One hour daily per semester.....	9.00
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GREAT ORGAN IN BRIDGES HALL

One hour weekly, per semester.....	7.50
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TWO-MANUAL PRACTICE ORGAN

One hour weekly, per semester.....	3.00
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PEDAL ORGAN

One hour daily, per semester..... 00

VIOLIN, CELLO OR FLUTE

Room without piano, one hour daily, per semester..... 30

Additional hours at same rate.

BOARD AND ROOM

See pages 91 and 92.

SUMMARY OF EXPENSES. The necessary expense for the college year, exclusive of fees for special courses and expenses which are purely personal, is about \$800.

BILLS. All College bills are due each semester in advance and must be paid by the student at the time of registration. Payment for room and board on an installment plan may be arranged in conference with the Controller at an extra charge of one dollar for each extra payment. No refunds are made to those leaving before the end of the semester except that in the case of those leaving before the middle of the semester because of illness one-half of the tuition and laboratory fees are refunded and in the case of those dropping out for good cause within a week of their registration all but \$25.00 is returned. No refund is made on a room payment unless the room is re-rented to someone not then residing in a college residence hall.

Students are not given honorable dismissal nor graduated whose bills are not paid. Seniors must settle all recognized bills by 4 p. m., of the fourth day preceding Commencement if they are to receive their diplomas with their class.

CAMPUS ORGANIZATIONS

THE ASSOCIATED STUDENTS. This association coordinates all student activities. Its officers are chosen by the student body from their own number. All important questions are considered by its executive committee, which is composed of those prominent in such varied lines as athletics, oratory, and the editorship of the Student Life.

ASSOCIATED WOMEN STUDENTS. The women of the student body form a voluntary organization, electing their own officers and committees and holding regular meetings. This organization considers and promotes the special interests of the women.

CLASS ORGANIZATIONS. Each of the four college classes is organized for the purpose of promoting class social life.

DEPARTMENTAL ORGANIZATIONS. Astronomical Society; El Culo Espanol; Le Cercle Francais; Il Circolo Italiano; History Club; Mathematics Club.

THE PHI BETA KAPPA SOCIETY

The Pomona Chapter of Phi Beta Kappa is the Gamma of California.

Upperclassmen "who are of good moral character, who are qualified for the degree of Bachelor of Arts, and who are distinguished for breadth of culture and excellence of scholarship" are eligible to membership in the Phi Beta Kappa Society.

HONOR SOCIETIES. Alpha Delta Mu,—Journalism Fraternity; Gamma Chapter, Alpha Kappa Delta,—Sociology Fraternity; Delta Sigma Rho,—Forensic Fraternity; Ghosts; Honorary Music Club; Mortar Board; Valkyries; Varsity Society.

LOCAL FRATERNITIES. Alpha Gamma Sigma; Kappa Delta; Kappa Theta Epsilon; Nu Alpha Phi; Phi Delta; Phi Kappa Alpha; Sigma Phi Alpha; Sigma Tau.

LITERARY SOCIETIES. Alpha Kappa; Delta Lambda; Phi Kappa Phi; Scribblers.

MUSICAL ORGANIZATIONS. Men's Glee Club; Women's Glee Club; Little Symphony Orchestra; Band (R.O.T.C.)

RELIGIOUS ASSOCIATIONS. Young Men's Christian Association; Young Women's Christian Association.

MISCELLANEOUS ORGANIZATIONS. Cosmopolitan Club; Forensic Union; Masquers,—Dramatics; Orchesis,—Dancing; Sigma Chi; Sigma Phi; Sigma Tau,—Riding.

PRIZES, SCHOLARSHIPS AND STUDENT AID

Financial aid for students in Pomona College is available in four different forms: Grants in aid, loans, departmental prizes and scholarships.

Grants in aid and loans are administered by the Committee on Student Aid, which presents its recommendation to the President and Controller for confirmation.

Departmental prizes are administered by the respective departments, each of which reports its awards to the President of the College and the Secretary of the Faculty.

Scholarships in Pomona College are of three kinds: Departmental, General and Special.

All Departmental and General Scholarships are competitive. Special Scholarships are only partially competitive and are administered in special ways but are reported to the Committee on Scholarships.

Each Departmental Scholarship is administered by the department concerned, which reports its award to the Committee on Scholarships.

All General Scholarships are administered by the Committee on Scholarships, which reports its awards, as well as all departmental awards, to the President of the College and the Secretary of the Faculty.

All announcements of prizes and scholarship awards are made by the President of the College.

PRIZES

The following prizes are offered for proficiency in the work of the several departments:

ASTRONOMY

THE MONCRIEFF ASTRONOMY PRIZE: A prize given to the student in the first year course in Astronomy, taken regularly in class, whose interest in the study and proficiency in the observatory work are indicated by the best notebook kept in accordance with the teacher's suggestion. A prize of ten dollars is given by Miss Flossie C. Moncrieff, '11.

DEBATE

THE DOLE PRIZES: A prize debate upon some subject selected by the faculty is arranged for the close of the second semester. First and second prizes of fifteen and ten dollars, respectively.

established by the late Mr. J. H. Dole, in memory of his father, Mr. W. B. Dole, are endowed by Mr. J. Albert Dole and Mr. A. M. Dole.

DECLAMATION

THE KINNEY PRIZES: A prize declamation contest, open to the members of the Freshman class, occurs near the middle of the year. First and second prizes of fifteen and ten dollars respectively, are endowed by Mrs. H. N. Kinney.

ECONOMICS

THE VAILE PRIZES: Prizes for the best essay or oration on the general subject of Agriculture in Southern California open to the Junior and Senior classes, were endowed by the late Mr. Charles S. Vaile. At present first and second prizes of fifteen and ten dollars respectively are offered.

ENGLISH

THE JENNINGS PRIZES: Eight prizes awarded at the end of each semester to Freshmen taking English A1, to the two men and the two women showing the best mastery over written and oral expression and also two to the men and two to the women showing the most gain during each semester in these respects. The total amount of the prizes is \$600.00, the gift of Mr. F. S. Jennings of San Diego.

GENERAL

THE RENA GURLEY ARCHIBALD HIGH SCHOLARSHIP PRIZE: A prize of fifty dollars to be awarded to that member of the graduating class taking the B.A. course and ranking highest in scholarship, established by the bequest of the late Reverend Andrew W. Archibald, D.D.

LATIN

THE MUDGE LATIN PRIZES: Prizes for excellence in Latin, first and second prizes of ten and five dollars, respectively, are endowed by friends of the College.

MATHEMATICS

THE LLEWELLYN BIXBY MATHEMATICS PRIZE: A prize for excellence in Analytic Geometry and Calculus; open to all students completing both Mathematics B13 and C115. A prize of ten dollars is given by Mr. Llewellyn Bixby.

MUSIC

THE BARBARA SANFORD ALLEN PRIZE: An annual competitive prize of fifty dollars to be awarded to a student of organ playing in the Department of Music. This award is made possible by the husband and parents of a graduate of the Class of 1915 of Pomona College.

PHYSIOLOGY

THE LORBEER PRIZES: Prizes for the best essay on the subject "How to Keep Well"; open to all who take the course on "The Human Body." First and second prizes of fifteen and ten dollars, respectively, are offered by Dr. Thomas L. Lorbeer, '06.

RELIGION

THE HAGER PRIZES: Prizes for the best essays on a foreign missionary subject, open to all students were endowed by the late Mr. and Mrs. C. R. Hager. At present three prizes of ten dollars each are offered.

DEPARTMENTAL SCHOLARSHIPS

ART

THE HANNAH TEMPEST SCHOLARSHIP FUND OF \$5,000. Income to be divided equally between a man and a woman studying art in accordance with conditions laid down by the donor, Mr. Hannah Tempest Jenkins.

ENGLISH

THE STANLY COGHILL MEMORIAL SCHOLARSHIPS. Through the generosity of anonymous friends, two scholarships of \$300 each may be awarded at the close of each academic year to two men in the sophomore or junior classes who show excellence in English Literature.

MILITARY

Students who have completed the basic course in Military Science and Tactics (or its equivalent) are eligible for enrollment in the advanced course of the Reserve Officers' Training Corps. Students enrolling in the advanced course enter into an agreement to complete the two years' course and to attend a six weeks' summer training camp. In consideration of this agreement, students receive from the government cash allowances equivalent to scholarships of about \$100.00 per year. All necessary expenses in connection with the summer camp, including transportation to and from the camp, are provided by the government.

The number of students admitted to the advanced course is limited to about fifteen per year. Selection of students for enrollment is based upon excellence in military training and suitability for eventual appointment as second lieutenants in the Officers' Reserve Corps. Students who present evidence of above average record in military training in R.O.T.C. units of preparatory schools will be given consideration in the selection of those to whom these scholarships will be awarded.

MUSIC

THE KATE CONDIT BRIMHALL MEMORIAL MUSIC SCHOLARSHIP
 END, \$2,000. Given by the late Mr. and Mrs. A. P. Condit.

SPECIAL SCHOLARSHIPS

KAPPA DELTA HONOR SCHOLARSHIP ENDOWMENT OF \$1,801.15.
 Given by members of Kappa Delta Fraternity.

The income from this endowment is supplemented by individual
 pledges to yield a scholarship of \$250, administered under a
 special committee. Awarded to a man at the beginning of his
 senior year.

THE FLORA SANBORN PITZER MEMORIAL SCHOLARSHIP. \$500 a
 year from The Sanborn-Pitzer Foundation established by Rus-
 sell K. Pitzer (Pomona 1900) in memory of his wife (Pomona
 1911). Awarded to a student selected by the Foundation.

GENERAL SCHOLARSHIPS

Except as a donor may have given specific instructions to the
 contrary it is the practice of the Committee on Scholarships to
 award to candidates who indicate great promise in:

- (1) Literary, scientific or other scholastic ability and attainments.
- (2) Qualities of manhood or womanhood, force of character and leadership.
- (3) The exhibition of moral force of character and of power to lead and to take an interest in his school-mates.
- (4) Physical vigor as shown by interest in outdoor sports, or in other ways.

The preferred applicant will excel in all four of the categories listed, but in the absence of such preferred combination the Committee may select an applicant who shows distinction in any of the first three over an applicant who shows a lower degree of promise and excellence in all. In any case interested participation in activities which sustain physical well-being constitutes essential qualification, though superior skills and excellence in other matters are not given undue weight.

Applicants must be over sixteen years of age; must satisfy all prescribed conditions for admission to Pomona College; and in the case of freshmen must not previously have attended some other college or university. A freshman applicant shall be en-

100 PRIZES, SCHOLARSHIPS AND STUDENT AID

dorsed by the head of the school from which he comes, and be required to indicate the subjects, not more than three in number, in which he is prepared to take examinations. Information concerning the time and place of examinations will be furnished immediately following April 15th. The Committee on Scholarships reserves the privilege, in case of doubt, to require further special evidence, by examination or interview, as it may be necessary to determine the candidate's fitness.

The following scholarships are available for the academic year 1931-32:

TWO SCHOLARSHIPS OF FIVE HUNDRED DOLLARS EACH. From the income of the Henry E. Storrs and Julia A. Storrs Foundation open to men who are candidates for admission to the Freshman Class.

TWO SCHOLARSHIPS OF THREE HUNDRED DOLLARS EACH. From the income of the Thomas J. Dowling Fund; open to both men and women who are candidates for admission to the Freshman Class.

Applications for these scholarships should be made to the Committee on Scholarships on or before April 15th.

Public announcement of recipients of awards will be made on or before July 1st.

THE OLIVIA PHELPS STOKES SCHOLARSHIP FUND, \$47,000. Bequeathed by the late Olivia Eggleston Phelps Stokes of New York and Redlands, California.

Fifteen awards of \$150 each are available each year on semester basis, eight being awarded for the first semester and seven for the second semester.

Applications for these Scholarships should reach the Committee on Scholarships before May 15th for the first semester of the following academic year and before January 15th for the second semester of the current academic year.

FELLOWSHIPS

Fellowships offered by Pomona College are competitive and are under the administration of the Committee on Scholarships. The following award may be made in June 1932 if qualified applicants appear.

One WILLIAM LINCOLN HONNOLD FOUNDATION fellowship with a stipend of Fifteen Hundred Dollars; open to students who have done four full years of work in Pomona College, who are rated in the upper half of the graduating class, on the basis of the

performance during both the junior and senior years, and who wish to continue their studies by advanced work either in Claremont Colleges or elsewhere in America or abroad.

The appointment will be for one year, but satisfactory work and conduct may earn a renewal, so that a really successful candidate may enjoy the fellowship for two or possibly three years, while at the same time a new appointment may be made from the graduating class each successive year.

The prime purpose of the fellowship is to promote scholarship rather than merely to reward faithful classroom work. For this reason preference will be given to candidates preparing for scholarly rather than professional work, and the selection will be based not on scholarship only but on the possession of those personal qualities which indicate a high degree of promise in a student of outstanding character. The choice of the institution where graduate work is to be done is to be made in consultation between the candidate and the Committee on Scholarships, the committee having final authority. At the end of each year of tenure, the beneficiary of a Honnold fellowship is to make a full report to the Committee on Scholarships covering the character of his work, impressions of the institution in which he has been residing, his plans for the immediate future, and recommendations for the further development or improvement of this fellowship plan.

OTHER AWARDS

The Committee on Scholarships also nominates students of Pomona College who wish to apply as candidates for certain scholarships and fellowships awarded by other institutions and foundations. Those who seek nomination to the Rhodes scholarships should advise with the Committee on Scholarships; likewise those who wish to be considered in the award of the Scholarships for the summer session of the National University of Mexico. The awards in the latter case are made by the Educational Council of Claremont Colleges to competent applicants from the juniors, seniors, and alumni of Pomona and Scripps.

GRANTS IN AID

The income of certain funds is used towards paying the tuition of students who are in pecuniary need. Such aid is given only to students who are or intend to become candidates for a degree from Pomona College, who maintain a high standard of

honor, who are economical in their habits, who are regular in their attendance upon college exercises, and who maintain, at the first semester of the Freshman year, at least "C" grade in their scholastic work.

The College aims to realize the ideal that no student who is of graduation should withdraw ahead of time for purely financial reasons. To that end the Administration welcomes the opportunity to confer with students who need assistance.

Applicants for aid who have not yet entered College should forward to the Chairman of the Committee on Student Aid a formal application accompanied by two letters, one from parent or guardian and the other from principal or teacher, giving information concerning need, character and attainments. They should also send a certified statement of their scholastic record. Applications for aid should be made on or before May first. Address Committee on Student Aid, Room 217 Sumner Hall.

Aid may be withdrawn at any time from students who prove not to have conformed to the conditions.

Recipients of grants in aid may be called upon to assist the College in ways that do not interfere with their studies.

STUDENT AID FUNDS

GENERAL

THE FRANCIS BANCROFT MEMORIAL FUND, \$1,500. Given by Mrs. James T. Ford of Los Angeles, California, in memory of her father.

THE BARROWS FUND OF \$2,500. Given by L. H. Barrows of Pasadena, California.

THE H. G. BILLINGS MEMORIAL FUND, \$1,000. Given by Mrs. E. A. Billings of Los Angeles, California, in memory of her husband.

THE FLORENCE G. BIXBY FUND, \$5,000. Given by Florence C. Bixby of California.

THE BRISTOL MEMORIAL FUND, \$400. A fund raised as a memorial to the Reverend Sherlock Bristol.

THE BESSIE A. BROWN MEMORIAL FUND, \$1,000. Given by Mrs. Fannie E. Brown of Los Angeles, California, in memory of Bessie A. Brown.

THE HENRY HERBERT BROWN MEMORIAL FUND, \$1,000. Given by Mrs. Fannie E. Brown of Los Angeles, California, in memory of her son.

PRIZES, SCHOLARSHIPS AND STUDENT AID 103

THE CLASS OF 1918 FUND OF \$961.78. Given by the Class of 1918.

THE CHARLES C. CRAGIN MEMORIAL FUND, \$5,025. Given by Mrs. Laura E. Cragin in memory of her husband, Rev. Charles C. Cragin.

THE AGNES K. CRAWFORD MEMORIAL FUND, \$1,000. Given by David R. Crawford and William Crawford, in memory of their mother.

EBELL CLUB OF POMONA STUDENT AID FUND, \$1,000.
To help, preferably, a girl.

THE ELWOOD FUND OF \$2,600. Given by Mary E. Elwood of Redlands, California.

THE FORD FUND OF \$2,500. Given by Rev. James T. Ford of Los Angeles, California.

THE FOWLER FUND OF \$1,000. Given by Mrs. Margaret Fowler of Pasadena, California.

THE ORREN A. GORTON FUND OF \$5,000. Established by the will of Orren A. Gorton of Sherburne, New York.

THE EMMA K. GUILD FUND OF \$44,329.88. Given by Emma K. Guild of Claremont, California.

THE MANETTE HAND MEMORIAL FUND OF \$1,500.

THE ALFRED JAMES HARWOOD MEMORIAL FUND, \$8,000. Given by Alfred P. Harwood of San Dimas, in memory of his son.

THE CHARLES E. HARWOOD FUND OF \$5,000. Given by Charles E. Harwood, LL.D., of Upland.

THE MARGARET BURTON HARWOOD MEMORIAL FUND, \$46,275. Given by Mr. Alfred P. Harwood and his three children, in memory of their mother.

THE THOMAS F. HOWARD "MEMORIAL SCHOLARSHIP FUND," \$2,000. Given by Dr. and Mrs. H. G. Brainerd of Los Angeles, California, in memory of Mrs. Brainerd's father.

THE MARY MARVIN JAMES FUND OF \$296.93. Given by Mary Marvin James of Pasadena, California.

THE KUNS FUND OF \$2,000. Given by Henry L. Kuns of La Verne.

THE LOOMIS FUND OF \$2,000. Given by Miss Jean Loomis, '97.

THE HOWARD J. MILLS MEMORIAL FUND OF \$3,000. Given by Mrs. Howard J. Mills of Los Angeles, California, in memory of her husband.

THE ONTARIO CONGREGATIONAL CHURCH FUND, \$186.50. Given by the Ontario Congregational Church towards the endowment of a fund.

104 PRIZES, SCHOLARSHIPS AND STUDENT AID

THE PAGE FUND OF \$5,000. Given by Mrs. Loraine H. Page Pomona, California. (Three thousand dollars of this may some time be used for other purposes.)

THE ARTHUR WARREN PHELPS MEMORIAL FUND, \$2,000. Given by Mrs. C. S. Phelps and Mr. C. A. Phelps, in memory of the son and brother.

THE LYDIA PHELPS MEMORIAL FUND, \$4,000. Given by Hiram E. Phelps of Ontario, California, in memory of his wife.

THE PILGRIM CHURCH OF POMONA FUND, \$1,667.44. Given by the Pilgrim Congregational Church of Pomona.

THE PILGRIM CHURCH WOMEN'S AUXILIARY FUND, \$500. Given by the Women's Auxiliary of the Pilgrim Congregational Church of Pomona.

THE JOHN D. POTTER MEMORIAL FUND, \$2,000. Given by Mrs. S. T. Potter of Westboro, Massachusetts, in memory of her husband.

THE SEARING FUND OF \$1,800. Given by Dr. Anna H. Searing of Escondido, California.

THE WALTER O. SHATTO MEMORIAL FUND, \$4,000. Given by Mrs. Clara R. Shatto in memory of her husband.

THE CLYDE H. SHIELDS MEMORIAL FUND, \$1,200. Given by R. P. Shields of San Diego, in memory of his oldest son, who was drowned in 1894, when about twenty-one years of age.

"THE HENRY STRONG SCHOLARSHIPS" (three grants of \$500 each). Established by the Henry Strong Foundation under the provisions of the will of Henry Strong, late of Chicago, Illinois, and Santa Barbara, California.

THE SWEET MEMORIAL FUND OF \$2,500. Given by Harlan Sweet in memory of his wife, C. Nell Sweet.

THE THATCHER FUND OF \$2,000. Given by Miss Susan Thatcher of San Diego.

THE WARDWELL FUND OF \$1,000. Given by Mrs. Maria T. Wardwell of Plymouth, Connecticut.

THE CLARA B. WATERMAN MEMORIAL FUND OF \$5,000. Given by Miss Rosa May Bennett of Los Angeles.

THE WEST FUND OF \$2,000. Given by Henry S. West of Los Angeles.

A GENERAL FUND OF \$39,090. Built up from the gifts of many friends.

SPECIAL

Our grants in aid of \$150 each are available for incoming freshman, men or women, who are nominated for the same by the California Scholarship Federation. The award becomes available, on the same conditions applying to regular grants, to the tuition of the second semester, provided the performance of the candidate during the first semester is entirely satisfactory. Winners of scholarships on either the Storrs or the Dowling Foundation are not also eligible for the California Scholarship Federation Grants in Aid.

"ROMBIE ALLEN SCHOLARSHIP FUND" OF \$1,000, half of the income available annually to a graduate of *Chaffey Union High School* and half to a graduate of *Chaffey Junior College* of Ontario, California.

"ALICE PAUL HARWOOD SCHOLARSHIP FUND" OF \$5,000. Open to graduates of *Chaffey Union High School* of Ontario.

"THE MABEL S. BRIDGES MEMORIAL FUND, \$3,500. Given by Mr. and Mrs. A. S. Bridges of San Diego, California, in memory of their daughter. Available for *women*.

"STELLA M. KING SCHOLARSHIP AND LOAN FUND FOR WOMEN," \$10,000.

"THE FRANCIS M. PRICE FUND OF \$1,000. For *children of missionaries*.

"THE MARTHA E. BERRY MEMORIAL FUND OF \$5,000. Given by Miss Elizabeth E. Berry. For *foreign* students.

LOAN FUNDS

The College also administers loan funds established by the bequest of Ellen H. Lyman and by George H. De Kay, Jr., in memory of his brother Frelin Campbell DeKay. By means of these funds, it is possible to co-operate in a moderate way, and temporarily, with the pressing needs of students.

"THE RAY LOAN FUND made possible by the gift of \$1,000 by Mrs. E. F. Ray provides a means of meeting situations of temporary need.

For more substantial loans over a longer period, the College administers the following funds on an interest bearing basis:

"THE CAROLINE PHELPS STOKES FUND", \$25,000. Established by the will of Olivia Eggleston Phelps Stokes in memory of her father.

THE ETHAN ALLEN CHASE AND AUGUSTA FIELD CHASE MEMORIAL FUND OF \$5,000, for men.

THE HARMON FOUNDATION extends to four selected students assistance by a loan for tuition.

All applications for loans should be addressed to the Committee on Student Aid, Room 217, Sumner Hall.

SELF SUPPORT

The Committee on Student Aid endeavors to find employment for students needing to earn a part of their expenses. Many thus helping themselves by various forms of labor such as janitor work, waiting on tables at Frary Hall or at the Commons, general house work, gardening and the like. The most desirable positions are in general secured by upperclassmen who have proven themselves good workers and good students, and those coming to College for the first time should be content if any work which they can satisfactorily do is secured for them. Students in such a case should come prepared to pay all bills for at least one semester. Their record during this semester will be a large factor in deciding what opportunities for self-help will be open to them. Applications for aid in securing employment should be addressed to the Chairman of the Committee on Student Aid, Room 217, Sumner Hall.

PUBLICATIONS

The stated publications of the College are issued as numbers of the *Pomona College Bulletin*, which is published bi-monthly. These include:

The Annual Catalog.

The Register of Alumni.

The Report of the President and special topical numbers.

Alumni and departmental publications are:

The Pomona College Magazine, devoted to the interests of the College and Alumni.

The Journal of Entomology and Zoology, published under the auspices of the Department of Zoology.

STUDENT PUBLICATIONS

The Student Life is published daily except Sunday and Monday by the student body and is devoted to current affairs.

Manuscript is a literary magazine issued four times a year.

The *Metate* is published each year by the Associated Students, contains material appropriate to a college annual.

The *Hand Book*, which contains material designed especially for new students, is issued at the beginning of the year by the Associated Students.

SUMMARY OF STUDENTS

1930-1931

Compiled February 14, 1931

Seniors	197
Juniors	182
Freshmen	203
Sophomores	200
Specials	5
Total Enrolment Regular Session	787

In addition to the above, 23 Claremont Colleges students and Scripps College students have taken some work in Pomona College during 1930-1931.

INDEX

- Administration, 89
- Admission, 27
- Alumni Field, 11
- Anthropology, 52
- Art, 52
- Assemblies, Public, 89
- Assistants, 24
- Associated Students, 94
- Associated Women Students, 94
- Astronomy, 52
- Athletics, 90
- Bachelor of Arts, 35
- Bills, 94
- Biology, 54
- Blanchard Park, 11
- Bluff Lake Camp, 13, 88
- Board, 91, 92, 94
- Board of Trustees, 16
- Botany, 55
- Bridges Auditorium, 12
- Bridges Hall, 12
- Buildings and Equipment, 11
- Calendars, 4-5
- Campus Organizations, 94, 95
- Chapel Service, 89
- Chemistry, 57
- Claremont Colleges, 10, 14, 88
- Claremont Inn, 12
- Class Officers, 26
- Classics, 59
- College Entrance Examination Board, 27
- Committees of the Faculty, 26
- Contents, 6
- Convocation, 5, 89
- Correspondence, 1
- Courses, Designation of, 51
- Courses of Instruction, 51-87
- Courses Required for Admission to Freshman Standing, 28
- Credit Requirements, 35
- Crookshank Hall, 13
- Curriculum, 35, 51
- Departmental Lecturers, 24
- Departmental Organizations, 95
- Dismissal, 90-91
- Dormitories—
 - Men, 91, 92
 - Women, 92
- Economics, 60
- Education, 61
- Election of Courses, 30
- Eli P. Clark Campus for Men, 12, 92
- English, 62
- Examination, Entrance, 27
 - Medical, 27
- Expenses, 92-94
- Faculty, 17
- Fees, 93
- Fellowships, 100
- Frary Hall, 12, 91
- French, 65
- General Information, 9
- General Requirements, 90
- Geography, 66
- Geology, 66
- German, 67
- Graduation Requirements, 37
- Grants in Aid, 101-105
- Graphics, 71
- Greek, 59
- Gymnasium, 13
- Harwood Court, 12, 92
- Harwood Hall, 13
- Health, 90
- Historical Sketch, 9
- History, 68
- Holmes Hall, 12
- Honnold, William Lincoln, lowship, 100
- Honors Study, 31-34
- Hour Requirements, 35
- Infirmary, 13
- Italian, 69
- Laguna Beach Marine Laboratory, 13, 88
- Latin, 59
- Lecture Foundations, 14
 - Clark Foundation, 15
 - Joseph H. Johnson Foundation, 14
 - Henry D. Porter Foundation, 14
- Library, 12, 13
- Living Conditions, 91
- Loan Funds, 105
- Map of Campus, 110
- Marine Laboratory, 13, 88

- arston Quadrangle, 11
- ason Hall, 13
- athematics, 70
- atriculation, 30
- emorial Training Quarters, 13
- ilitary Science, 71
- usic, 72
- Charges in, 92
- Practice Fees, 93, 94
- usical Entertainments, 15
- bservatory, The Frank P.
Brackett, 13
- fficers of Administration, 8
- pen-Air Theater, 12
- rganizations—
- Campus, 94, 95
- Departmental, 95
- arsons Hall of Science, 13
- i Beta Kappa, 95
- hilosophy, 75
- ysical Attention, 90
- ysical Education, 76
- ysical Examination, 27
- ysics, 78
- olitical Science and Law, 80
- izes, 96-98
- rogram of Studies, 38
- Div. I—Fine Arts, 40
- Div. II—English, 41
- Div. III—Foreign Languages
and Literatures, 42
- Div. IV—Biological Sciences,
43
- Div. V—Physical Sciences, 44
- Div. VI—Social Sciences, 45
- Div. VII—Philosophy, Psy-
chology and Re-
ligion, 46
- Pre-Engineering Course, 47
- Pre-Medical Course, 48
- Prospective Teachers' Course
49, 50
- Psychology, 82
- Publications, 106
- Public Address, 83
- Public Assemblies, 89
- Registration, 29
in Honors, 32
- Religion, 84
- Rembrandt Hall, 12
- Reports on Scholarship, 89
- Requirements
for Admission, 27
for Graduation, 37
General, 90
Hours and Credits, 35
- Residence Halls, 91, 92
- Scholarships, 96, 98-100
Departmental, 98
General, 99, 100
Special, 99
- Scripps College, 10, 14, 52, 66
- Self-Support, 106
- Smiley Hall, 12, 92
- Sociology, 85
- Spanish, 87
- Special Students, Admission as, 29
- Strong Hall, 12, 92
- Students, Summary of, 107
- Summary of Expenses, 94
- Summer Session, 88
- Sumner Hall, 11
- Swimming Pool, 90
- Teachers' Certificates, 49
- Trustees, 16
- Tuition, 92
- Zoology, 56

KEY

Permanent



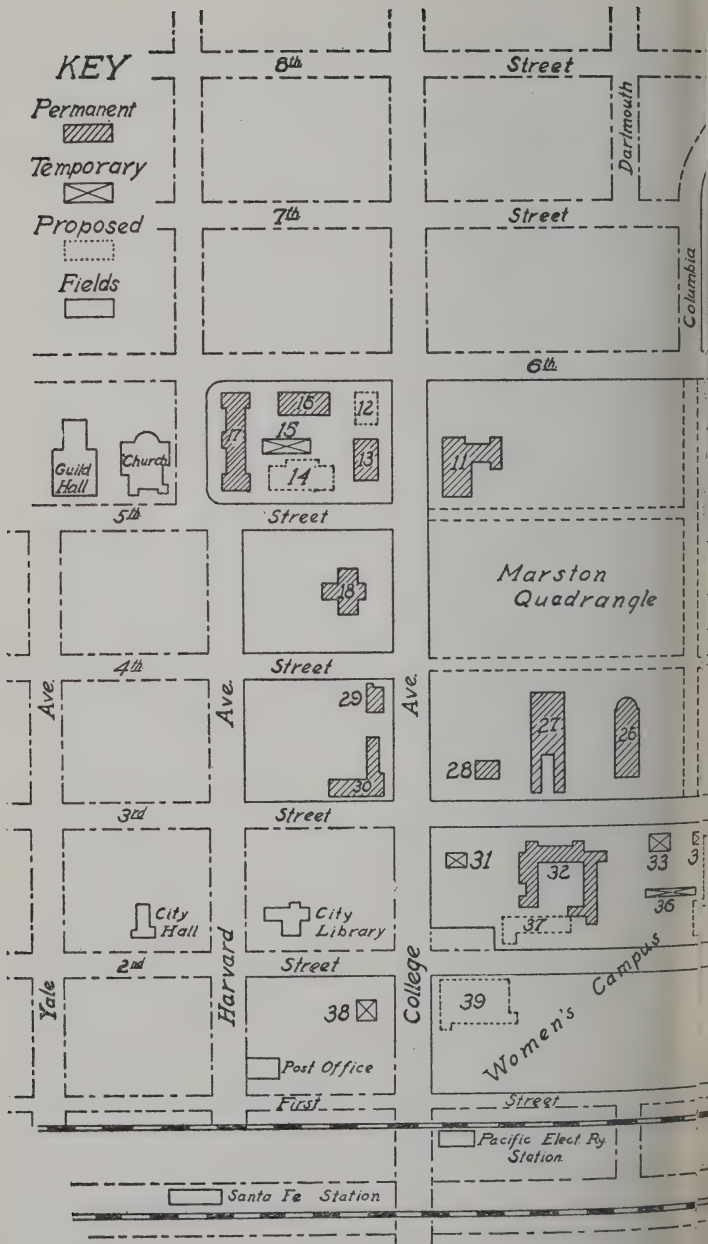
Temporary



Proposed



Fields



Index

PERMANENT

3. Men's Dormitory and Dining Hall:
Eli P. Clark and Frary Halls
5. Men's Dormitory
6. Tennis Courts
7. Alumni Athletic Fields
8. Training Quarters
9. Swimming Pool

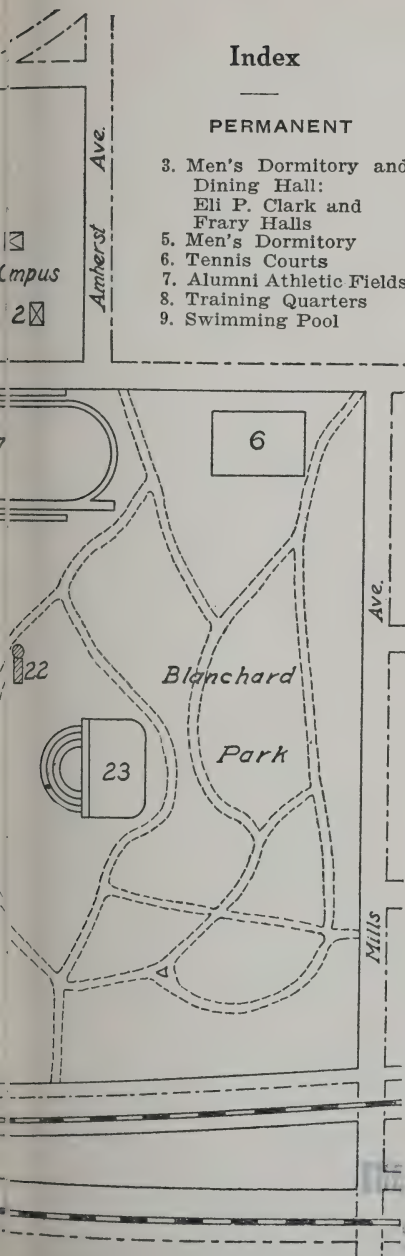
10. Smiley Hall:
Men's Dormitory
11. Holmes Hall:
Assembly Hall
Business Offices
13. Pearsons Hall
16. Crookshank Hall
17. Mason Hall
18. Library
22. Brackett Observatory
23. Greek Theater
24. Hockey Field
25. Tennis Court
26. Sumner Hall:
Offices—President;
Secretary; Alumni;
Publications
27. Bridges Hall
28. Rembrandt Hall
29. President's House
30. Claremont Inn and
Women's Commons
32. Harwood Court:
Women's Dormitory
40. Heating Plant

TEMPORARY

1. Garages
2. College Shops
15. Harwood Hall
20. Little Gymnasium
21. Big Gymnasium
31. Wilby House:
Women's Dormitory
33. Residence of Dean
of Women
34. Women's Building
36. Garages
38. Haddon Hall:
Women's Dormitory

PROPOSED

4. Men's Dormitory
12. Botany Building
14. Physics Building
19. Bridges Auditorium
35. Women's Dormitory
37. Women's Dining Hall
39. Women's Gymnasium



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2/33

Pomona College

Annual Catalog

1932-1933



Claremont • California

CORRESPONDENCE

Correspondence should be addressed as follows, the postoffice address being in every case Pomona College, Claremont, California:

Requests for catalogs, bulletins and general information, also
inquiries regarding Public Events and Lectures - -

- - - SECRETARY OF THE FACULTY

mission of Students - - DIRECTOR OF ADMISSIONS

Business Affairs - - - - - CONTROLLER

ent Affairs - - - DEAN OF THE COLLEGE
AND DEAN OF WOMEN

ications for Faculty Appointments - - PRESIDENT

ni Affairs SECRETARY OF THE ALUMNI ASSOCIATION

POMONA COLLEGE BULLETIN

PUBLISHED BI-MONTHLY BY POMONA COLLEGE

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XXIX

MARCH, 1932

No. 2

Forty-fifth Year

Pomona College

ANNUAL CATALOG

REGISTER OF OFFICERS AND
TEACHERS FOR THE YEAR
1932 - 1933, REQUIREMENTS
FOR ADMISSION, DESCRIPTION
OF COURSES AND GENERAL
INFORMATION

THE LIBRARY OF THE
UNIVERSITY OF CALIFORNIA

March, 1932

CLAREMONT · CALIFORNIA

Published by the College

1932

1933

JANUARY							JULY							JANUARY							JULY						
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COLLEGE CALENDAR

1932

September	19, Monday	} Registration Days
September	20, Tuesday	
September	21, Wednesday	
September	22, Thursday	
September	23, Friday	Opening Convocation, 9:00 a. m.
September	23, Friday	First Semester Classes begin, 10:15 a. m.
October	14, Friday	Founders Day, Flame Ceremony, 10:00 a. m.
November	11, Friday	Armistice Day Ceremony, 11:00 a. m.
November	17, Thursday	Convocation — World Affairs — 10:00 a. m.
November	23, Wednesday	Thanksgiving Recess begins, 6:00 p. m.
November	28, Monday	Thanksgiving Recess ends, 8:00 a. m.
December	14, Wednesday	Christmas Music, 7:00 p. m.
December	17, Saturday	Christmas Recess begins, 1:00 p. m.

1933

January	3, Tuesday	Christmas Recess ends, 8:00 a. m.
January	5, Thursday	Convocation, 10:00 a. m.
February	4, Saturday	First Semester Ends
February	6, Monday	Registration Day for Underclass- men and Specials
February	7, Tuesday	Registration Day for Upperclass- men
February	8, Wednesday	Second Semester Classes begin, 8:00 a. m.
February	9, Thursday	Opening Convocation of Second Semester, 10:00 a. m.
February	18, Saturday	Matriculation and Parents' Day Convocation, 11:00 a. m.
March	15, Wednesday	Convocation—Research, 10:00 a. m.
March	31, Friday	Spring Recess begins, 6:00 p. m.
April	11, Tuesday	Spring Recess ends, 8:00 a. m.
April	13, Thursday	Convocation, 10:00 a. m.
May	31, Wednesday	Memorial Convocation, 4:30 p. m.
June	19, Monday	Commencement

SUMMER VACATION

September	18, Monday	} Registration Days
September	19, Tuesday	
September	20, Wednesday	
September	22, Friday	
		Convocation 9:00 a. m.

CONTENTS

Correspondence, Addresses for	1
Calendar	3
Directory of Officers of Administration	8
Board of Trustees	9
Faculty	107
Faculty Committees	8
General Information	197
Historical Sketch	193
Claremont Colleges	1
Pomona's Ideal and Program	1
Honors Work	2
Co-education	3
Buildings and Equipment	247
The Library	6
Lecture Foundations	2
Administration	280
Living Conditions	291
Expenses	313
Campus Organizations	334
Publications	4
Prizes, Scholarships and Student Aid	339
Prizes	339
Scholarships	339
Fellowships	350
Grants in Aid	403
Student Aid Funds	413
Loan Funds	4
Self Support	43
Admission	447
Registration	48
Matriculation	48
Supervision of Scholarship	451
Procedure in Honors Study	535
Curriculum	571
Unit and Grade Point Requirements	551
General Requirements for Graduation	550
The Program of Studies	59
Concentration in Special Fields	550
Suggested Programs	671
Division I—Fine Arts	51
Division II—English	52

Division III—Foreign Languages and Literatures	63
Division IV—Biological Sciences	64
Division V—Physical Sciences	65
Division VI—Social Sciences	66
Division VII—Philosophy, Psychology, and Religion	67
Pre-Engineering	68
Pre-Medical	69
For Prospective Teachers	70
For Prospective Teachers of Physical Education	71
Methods of Instruction	72-109
Designation of Courses	72
Art	73
Astronomy	73-74
Biology	75
Botany	76
Zoology	76-77
Chemistry	77-79
Classics (Greek, Latin)	80
Economics	81-82
Education	82-83
English	83-85
French	85-87
Geography	87
Geology	87-88
German	88
History	88-90
Italian	90
Mathematics	90-92
Military Science	92-93
Music	93-96
Philosophy	96-97
Physical Education	97-99
Physics	100-101
Political Science and Law	101-104
Psychology	104-105
Public Address	105-106
Religion	106-107
Sociology	107-108
Spanish	109
Summer Session	110
Summary of Students	110

DIRECTORY OF OFFICERS OF ADMINISTRATION

CHARLES K. EDMUNDS, Ph.D., President.	209 Sumner H
WILLIAM E. NICHOLL, M. A., Dean of the College.	101 Sumner H
JESSIE E. GIBSON, M.A., Dean of Women.	112 Sumner H
ERNEST E. JONES, B.A., Treasurer.	Harper H
GEORGE S. SUMNER, Ph.D., Controller.	Harper H
GEORGE S. BURGESS, J.D., Secretary of the Faculty.	200 Sumner H
HOWARD HUNT PATTEE, M.A., Director of Admissions.	104 Sumner H
CHARLES T. FITTS, M.A., Registrar.	106 Sumner H
GERTRUDE PALMER CLEVERDON, B.A., Assistant to the President.	209 Sumner H
EDNA PRESCOTT DAVIS, Director of Dormitories.	Frary H

BOARD OF TRUSTEES

GEORGE W. MARSTON, LL.D.	<i>President</i>
HANK H. HARWOOD	<i>Vice-President</i>
WILL A. SCHWEITZER	<i>Vice-President</i>
CHARLES K. EDMUNDS, PH.D.	<i>President of the College</i>
ERNEST E. JONES	<i>Secretary and Treasurer</i>
GEORGE S. SUMNER, PH.D.	<i>Controller</i>

HONORARY TRUSTEES

CHARLES E. HARWOOD, LL.D.	Upland
President of Claremont Colleges, <i>Ex Officio</i>	
President of the Alumni Association, <i>Ex Officio</i>	

Term of Office Expires June, 1932

ARTHUR S. BENT	Los Angeles
GEORGE L. EASTMAN	Hollywood
ERWIN F. HAHN	Pasadena
WILEY G. MUDD	Los Angeles
JOHN TREANOR	Los Angeles
EDDOLPH J. WIG	Pasadena

Term of Office Expires June, 1933

ESSANNA BIXBY BRYANT	Los Angeles
ARTHUR M. DOLE	Pomona
CHARLES K. EDMUNDS, PH.D.	Claremont
WILLIAM S. MASON	Evanston, Ill.
WILL A. SCHWEITZER	Los Angeles
WILLIAM SIBLEY, D.D.	Pasadena

Term of Office Expires June, 1934

LESLIE FREEMAN, D.D.	Pomona
EDWARD C. HARWOOD	Pasadena
HANK H. HARWOOD	San Dimas
MARY McLEAN OLNEY	Berkeley
W. R. H. WELDON	South Pasadena
ED M. WILCOX	Lamanda Park

Term of Office Expires June, 1935

EDWARD G. APLIN	Highland
LEWELLYN BIXBY	Long Beach
STANLEY CHAPMAN	Fullerton
JOHN M. CURRAN	Santa Barbara
MARY CLARK EVERSOLE	La Canada
GEORGE W. MARSTON, LL.D.	San Diego

Term of Office Expires June, 1936

JAMES S. EDWARDS	Redlands
WILLIAM B. HIMROD	Los Angeles
ARTHUR J. McFADDEN	Santa Ana
ELPH J. REED	Los Angeles
JOHN W. SNYDER	San Diego
CARL S. PATTON	Los Angeles

FACULTY¹

CHARLES KEYSER EDMUNDS

345 College A

President, 1928.

B.A., Johns Hopkins University; Ph.D., Johns Hopkins University.

EDWIN CLARENCE NORTON

145 W. Seventh

Dean of the Faculty and Professor of the Greek Language and Literature on the Edwin Clarence Norton Foundation, Emeritus, 1888.

B.A., Amherst College; M.A., Amherst College and Yale University; Ph.D., Carleton College; D.D., Pacific Theological Seminary. Graduate Student, Johns Hopkins, Columbia and Oxford Universities.

FRANK PARKHURST BRACKETT²

270 E. Third

Professor of Astronomy on the Frank Parkhurst Brackett Foundation and Director of the Observatory, 1888.

B.A., Dartmouth College; M.A., Dartmouth College; Sc.D., Dartmouth College. Honorary Fellow, Clark University.

PHEBE ESTELLE SPALDING

261 W. Fifth

Professor of English Literature on the Phebe Estelle Spalding Foundation, Emeritus, 1889.

B.L., Carleton College; M.L., Carleton College; Ph.D., Boston University.

GEORGE GALE HITCHCOCK

721 College A

Professor of Physics, Emeritus, 1892.

B.A., University of Nebraska. Graduate Student, Johns Hopkins and Cornell Universities.

GRACE ELLA BERRY

353 W. Eleventh

Associate Professor of Mathematics, 1909.

Dean of Women, 1909-1927.

B.S., Mount Holyoke College; M.A., Mount Holyoke College.

MENDAL GARBUTT FRAMPTON

927 Harvard A

Professor of the English Language, 1904.

B.A., Illinois College; M.A., Illinois College; M.A., Harvard University. Graduate Student, Harvard and Chicago Universities.

WILLIAM ATWOOD HILTON

1293 Dartmouth A

Professor of Zoology on the Willard George Halstead Foundation, 1905.

B.S., Cornell University; Ph.D., Cornell University.

¹Arranged in order of appointment to present rank. The date in each case denotes the beginning of original term of service.

²Absent on leave, 1932-1933.

EDWARD CAPEN EWER

706 Indian Hill Blvd.

Professor of Psychology, 1916.

B.A., Brown University; M.A., Brown University; Ph.D., Harvard University.

ARTHUR HAINE LYMAN

357 W. Tenth St.

Professor of Applied Music, Head of Department of Music, 1917.

B.A., Grinnell College. Student in voice with Karleton Hackett, William B. Olds, Grant Hadley, Arthur Middleton, Courtland Cooper, Holmes Cowper and other American masters and with Vittorino Moratti in Berlin.

ALDO BEATH JONES

125 W. Eleventh St.

Professor of Romanic Languages, 1911.

B.A., Boston University; M.A., Boston University. Graduate Student, Universities of Chicago, Geneva and Barcelona.

WILLIAM EVAN NICHOLL¹

465 W. Sixth St.

Dean of the College and Professor of Education, 1919.

B.A., Bellevue College; M.A., Columbia University. Graduate Student, Edinburgh University.

ELMER ROBBINS

487 Harrison Ave.

*Professor of Classical History and Language, 1915.**Director of the Library.*

B.A., University of Michigan; M.A., University of Michigan; Ph.D., University of Michigan.

ROBERT CHARLES DENISON

232 W. Fifth St.

Professor of Philosophy on the Robert C. Denison Foundation, 1920.

B.A., Amherst College; B.D., Andover Theological Seminary; D.D., Amherst College.

ALFRED CUMMINGS BROOKS

489 W. Sixth St.

Professor of Religion on the Nancy M. Lyon Foundation, 1921.

B.A., Tabor College; B.D., Yale Divinity School; D.D., Tabor College and Whitman College. Graduate Student, Oberlin College.

RICHARD McCULLEY²

821 Dartmouth Ave.

Professor of English Literature, 1921.

B.A., Hiram College; M.A., University of Chicago; Ph.D., Harvard University.

WILLIAM KIRK

705 Indian Hill Blvd.

Professor of Social Economics on the Henry Snyder Foundation, 1922.

B.A., Johns Hopkins University; Ph.D., Johns Hopkins University.

WILLIAM POLK RUSSELL

506 E. Sixth St.

Professor of Mathematics on the Joseph W. Fiske Foundation, Emeritus, 1904.

B.A., Cumberland University; M.A., Cumberland University. Graduate Student, Columbia, Harvard and Yale Universities.

Absent on leave, second semester, 1932-1933.

Absent on leave, 1932-1933.

- GEORGE SAMUEL BURGESS 1175 College A
Professor of Law and Secretary of the Faculty, 1918.
 B.A., University of Michigan; J.D., University of Michigan.
- EUGENE WHITE NIXON 1034 Harvard A
Professor of Physical Education for Men, 1916.
 B.A., Monmouth College; M.A., Columbia University. Graduate Student, Illinois and California Universities.
- FRANK WESLEY PITMAN 116 E. Twelfth
Professor of History on the Warren Finney Day Memorial Foundation, 1924.
 Ph.B., Yale University; M.A., Yale University; Ph.D., Yale University.
- ROLAND R. TILESTON 1129 Dartmouth A
Professor of Physics on the Seeley W. Mudd Foundation, 1925.
 B.A., Dartmouth College; M.A., Dartmouth College; D.Sc., Colorado College.
- RUSSELL McCULLOCH STORY 127 W. Eighth
Professor of Political Science, 1925.
 B.A., Monmouth College; M.A., Harvard University; Ph.D., Harvard University.
- CHARLES TABOR FITTS 826 Harvard A
Registrar and Assistant Professor of English, 1919.
 B.A., Amherst College; M.A., University of California. Graduate Student, Harvard University.
- PHILIP ALEXANDER MUNZ 1165 Indian Hill Blv.
Professor of Botany on the Henry Kirke White Bent Foundation, 1917.
 B.A., University of Denver; M.A., University of Denver; Ph.D., Cornell University. Graduate Student, University of Chicago.
- KENNETH DUNCAN 1120 Harvard A
Professor of Economics on the Stedman-Sumner Foundation, 1926.
 B.A., Wabash College; M.A., University of Wisconsin; Ph.D., University of Michigan.
- ALFRED OSWALD WOODFORD 443 W. Tenth St.
Professor of Geology, 1915.
 B.A., Pomona College; Ph.D., University of California.
- JESSIE EDITH GIBSON 246 Dartmouth A
Dean of Women on the Martha N. Hathaway Foundation, 1927.
 B.A., University of Idaho; M.A., University of Washington. Graduate Student, California and Columbia Universities.

FACULTY

13

CHARLES JUDSON ROBINSON 809 Indian Hill Blvd.

Professor of Chemistry on the Carnegie Foundation, 1927.

B.S., Illinois Wesleyan University; Ph.D., Johns Hopkins University.

EDWARD TAYLOR 1022 Harvard Ave.

Professor of Engineering Mathematics, 1920.

C.E., University of Minnesota; M.A., University of Southern California.

Graduate Student, University of Oregon.

EDWARD MCCHESENEY SAIT 238 E. Seventh St.

Professor of Political Science, 1928.

B.A., Toronto University; M.A., Toronto University; Ph.D., Columbia University.

LESTER GEORGE JAEGER

Professor of Mathematics, 1931.

B.A., University of Missouri; Ph.D., University of Missouri.

ALBERT SIDNEY ELLIS 1133 Yale Ave.

Professor of Psychology, 1931.

B.A., University of Arkansas; Ph.D., Clark University.

WALTER ALFRED ALLEN 256 E. Second St.

Professor of Musical Theory and Appreciation, 1912.

B.A., Beloit College; B.Mus., Yale University. Associate, American Guild of Organists.

NORRETT SAMUEL OLIVE 136 W. Seventh St.

Professor of Piano, 1923.

B.Mus., Simpson College. Graduate Student, Simpson College. Pupil of Moritz Mayer-Mahr and Mme. Teresa Carreno in Berlin.

JOSEPH WADDELL CLOKEY¹ Via Los Altos

Professor of Organ, 1926.

B.A., Miami University. Graduate, Cincinnati Conservatory of Music.

WILLIAM HOOD SIMPSON

Professor of Military Science and Tactics, 1932.

Graduate, U. S. Military Academy; Graduate, Advanced Course, Infantry School; Distinguished Graduate, Command and General Staff School; Graduate, Army War College. Major, Infantry, U. S. Army.

EROLD HUNT PATTEE

Director of Admissions, 1932.

B.A., Pomona College; M.A., Stanford University; Graduate Student, Columbia University.

—
Absent on leave, 1932-1933.

ELLIOTT CURTIS LINCOLN

472 W. Tenth

Associate Professor of English Literature, 1924.

B.A., Colby College; M.A., State College of Washington and Harvard University.

BENJAMIN DAVID SCOTT

828 College

Associate Professor of Public Address, 1923.

B.A., University of Southern California; S.T.B., Boston University; Ph.D., Boston University. Graduate work, Boston, Brown and Harvard universities.

ELIZABETH KELLEY

Associate Professor of Physical Education for Women, 1928.

B.A., University of Wisconsin; M.A., New York University.

WALTER TICKNOR WHITNEY

445 W. Tenth

Associate Professor of Astronomy, 1929.

B.S., M.S., Pomona College; Ph.D., University of Chicago.

JAMES WHITE CROWELL

1237 Dartmouth

Associate Professor of Spanish, 1929.

B.S., Haverford College; M.A., Haverford College; Ph.D., Cornell University.

JOHN STEWART BURGESS

736 College

Associate Professor of Sociology, 1930.

B.A., Princeton University; Ph.D., Columbia University.

WILLIAM HENRY COOKE

226 W. Eighth

Associate Professor of History, 1927.

B.A., Pomona College; M.A., Pomona College; Ph.D., Stanford University.

ROBERT TRESILIAN BELCHER

452 W. Sixth

Assistant Professor of Mathematics and Engineering, Emeritus, 1907.

B.A., Queen's University. Graduate Student, Queen's College and University of California.

CLIFFORD NOTT HAND

1045 Yale

Assistant Professor of Religion and Editor of College Magazine, 1911.

B.L., Pomona College; B.D., Pacific School of Religion; M.A., University of Southern California. Graduate Student, University of California.

RALPH RAYMOND UNIACKE

160 W. Eleventh

Assistant Professor of Violin, 1923.

Pupil of Franz Milcke.

FRANCIS GARRITT GILCHRIST

346 Harvard

Assistant Professor of Zoology, 1924.

B.A., University of California; Ph.D., University of California.

FACULTY

15

CLVIN HEATH 270 W. Twelfth St.

Assistant Professor of Physical Education for Men, 1922.

B.A., Pomona College. Graduate Student, Pomona College.

ROBERT LOBINGIER STREHLE¹ 1019 Dartmouth Ave.

Assistant Professor of Physical Education for Men, 1923.

B.A., Pomona College. Graduate Student, Pomona College.

FRANCIS RAYMOND IREDELL² 1060 College Ave.

Assistant Professor of Philosophy, 1925.

B.A. Pomona College; M.A., Harvard University.

MARY DIXEY BIGELOW Miramar and Mills Aves.

Assistant Professor of Physical Education for Women, 1925.

Graduate, Department of Hygiene, Wellesley College.

FRIDA FRIEDA BISSIRI 1035 Harvard Ave.

Assistant Professor of French, 1920.

B.A., Kreuzlingen College, Switzerland.

TOMAS MONTAGUE BEGGS 424 W. Tenth St.

Assistant Professor of Art, 1926.

B.F.A., Yale University. Graduate, General Art Course at Pratt Institute.

MARGARET HUSSON

Assistant Professor of Spanish, 1925.

B.A., University of Kansas; M.A., Columbia University.

HEROLD DAVIS 157 E. Tenth St.

Assistant Professor of English, 1927.

B.A., Stanford University; B.A. and B.Litt., Oxford University.

ELIE ELIZABETH WAGNER 245 W. Tenth St.

Assistant Professor of German, 1928.

B.A., Smith College; M.A., Pennsylvania State College. Graduate Student, Columbia University, Middlebury College, Sorbonne, Universite de Paris.

WESLEY GLICK LEIGHTON 121 W. 6th St.

Assistant Professor of Chemistry, 1931.

B.A., Pomona College; M.A., Harvard University; Ph.D., Harvard University.

HERBERT EDWARD GRAY

Assistant Professor of Music, 1931.

B.Mus., University of Nebraska; Pupil in voice of Adolph Engstrom, Evan Williams, and others; in cello of George Pierce, Bruno Steindel, and others.

—
sent on leave, second semester, 1932-1933.

—
sent on leave, first semester, 1932-1933.

- HOLLAND SPENCER CHAMNESS** 1030 Dartmouth A
Assistant Professor of Military Science and Tactics, 1931.
 Graduate, Infantry School, Basic Course. Captain, U. S. Army.
- MARION JEANETTE EWING** 487 W. Sixth
Acting Librarian, 1912.
 B.A., Olivet College; B.S., Simmons College; M.A., Boston University.
- LEON HOWARD** 217 W. 11th S
Assistant Professor of English, 1930.
 B.A., Birmingham-Southern College; M.A., University of Chicago; Ph.D., Johns Hopkins University.
- ERNEST ALBERT STRATHMANN**
Assistant Professor of English, 1932.
 B.A., M.A., Ph.D., Johns Hopkins University.
- EARL JAY MERRITT** Eli P. Clark H
Instructor in Physical Education, and Freshman Class Adviser, 1925.
 B.A., Pomona College.
- RAMSAY LORD HARRIS** Smiley H
Instructor in English, 1927.
 B.A., Colgate University. Graduate student, Rochester Theological Seminary, Universities of Rochester, Redlands, and Southern California.
- MARY C. LOVE** 466 W. Sixth S
Head of Library Loan Department, 1929.
 B.A., M.A., Stanford University.
- CURTIS HAUPT** 487 Harrison A
Instructor in Physics, 1930.
 B.A., Colorado College; M.A., University of California. Ph.D., University of California.
- VIRGINIA FAIRFAX PRINCEHOUSE**
Instructor in Dramatics, 1930.
 B.A., Pomona College; Graduate Student, School of Dramatics, Yale University. M.A., Claremont Colleges.
- ADA COOPER CAWSEY**
Instructor in Physical Education for Women, 1930.
 B.S., University of Wisconsin.
- LOUISE OTIS** 424 W. 6th S
Instructor in Chemistry, 1931.
 B.A., Northwestern University; Ph.D., Northwestern University.
- LAURENCE J. de RYCKE** 255 W. 5th S
Instructor in Economics, 1931.
 B.B.A., University of Oregon; M.B.A., University of Oregon.
- CARL BAUMANN**
Instructor in German, 1931.
 Ph.D., University of Basel.

FACULTY

17

EDMON SUTHERLAND

235 W. 9th St.

Instructor in Piano, 1931.

B.A. and M.Mus., American Conservatory of Music.

WILLIE STEVENSON

626 Yale Ave.

Instructor in Voice, 1931.

Student of Charles W. Clark, Alice Prince Miller and Rita Bastiannini.

MATHA ROWENA STAVELY

Instructor in Music, 1931.

B.M. and B.A., University of Redlands. Graduate Student, Claremont Colleges.

THOMAS ALEXANDER POLLOCK

Instructor in Organ, 1932.

B.A., Pomona College. Graduate, Eastman School of Music.

DEPARTMENTAL LECTURERS

JOSEPH AUGUSTUS DOUGLASS

275 W. Tenth St.

Lecturer in Education, 1926.

Professor of Education, Claremont Colleges.

B.A., Kansas State Teachers College; M.A., Ph.D., Clark University.

JOSEPH JEREMIAH VOORHIS

San Dimas

Lecturer in History, 1929.

B.A., Yale University; M.A., Claremont Colleges.

JOSEPH COLEMAN

870 N. Towne Ave., Pomona

Lecturer in Public School Music, 1927.

B.Mus., Chicago University. Pupil of Percy Rector Stephens and DeWitt Lurgin Lash.

ASSISTANTS

JOSEPH EMILY CLAYTON

308 Alexander Ave.

Assistant in Biology, 1931.

B.A., San Diego State College; M.A., Claremont Colleges.

MADELINE NELSON

Assistant in History, 1931.

B.A., University of Arizona. Graduate Student, Claremont Colleges.

JOHN CALDWELL MCBRIDE

Assistant in Physics, 1932.

EDMON PHELPS SMITH

Assistant in Physics, 1932.

MARGARET WALKER

Assistant in Physical Education, 1932.

ELISABETH HENDERSON

Assistant in Physical Education, 1932.

FACULTY COMMITTEES

1932 - 1933

ACADEMIC PROCEDURE—Robinson, Gibson, G. S. Burgess, Nicholl, Sait, Tileston, Ewer.

ADMINISTRATION—Nixon, Robinson, Robbins, Story, Woodford.

ADMISSION—Pattee, Fitts, Nicholl, Gibson, Davis, Whitney.

ATHLETIC COUNCIL—Nixon, Strehle, Lincoln, Nicholl, and student representatives.

ATHLETIC CONFERENCE—Woodford, Nicholl, Nixon.

CLASSIFICATION—Fitts, Berry, Taylor, Ellis, Pattee.

COLLEGE LIFE—Nicholl, Gibson, Duncan, Brooks, Merritt.
President and Vice-President Associated Students, consist members on call.

CONVOCATION—Nicholl, G. S. Burgess, Lyman, Scott.

COURSES OF STUDY—G. S. Burgess, Sait, Jaeger, Fitts, Tileston, Gibson, L. Howard.

ENGLISH—Davis, de Rycke, Leighton, J. S. Burgess, Husson.

HEALTH—Nixon, Kelley, Nicholl, Gibson.

HONORS—Woodford, Robinson, Nixon, Pitman, Crowell, C. Ellis.

LECTURES, PUBLIC EVENTS AND COMMENCEMENT—G. S. Burgess, Nicholl, Lyman, W. J. Howard.

LIBRARY—Duncan, Robbins, Ewing, Hilton, G. S. Burgess.

PUBLICATIONS—Hand, G. S. Burgess, Lincoln, Harris, Cleveland, Story, Maple, Glen Turner.

RELIGIOUS INTERESTS INCLUDING CHAPEL—Brooks, Nicholl, Lyman, Jaeger.

ROOMS—G. S. Burgess, Taylor, Hilton.

SCHOLARSHIPS—Story, Gibson, Nicholl, Tileston, Allen, Iredell.

STUDENT AID—Pattee, Hand, Nicholl, Gibson, Cleverdon.

GENERAL INFORMATION

HISTORICAL SKETCH

Pomona College owes its inception to early settlers in Southern California whose previous affiliations led them to attempt the founding of a "Christian College of the New England type." Under the leadership of the Reverend Charles B. Sumner, a devoted and self-sacrificing group of fifteen were appointed members of the first Board of Trustees by the General Association of Congregational Churches of Southern California.

Besides the present President of the Board of Trustees, Mr. George W. Marston of San Diego, and the late Dr. Charles B. Sumner, who served as Secretary of the Board for thirty-eight years, the other original trustees were:

Mr. Henry Kirke White Bent of Pasadena
Mr. Nathan W. Blanchard of Santa Paula
Judge Anson Brunson of Los Angeles
Mr. Elwood Cooper of Santa Barbara
Rev. James T. Ford of San Bernardino
Rev. James H. Harwood, D.D. of San Diego
Rev. D. D. Hill of Pasadena
Rev. T. C. Hunt of Riverside
Rev. J. K. McLean, D.D. of Oakland
Mr. Henry A. Palmer of Oakland
Mr. Seth Richards of Boston, Mass.
Rev. Charles B. Sheldon of Pomona
Mr. Andrew J. Wells of Long Beach

FIRST DAYS

The College was incorporated October 14, 1887. To meet the immediate needs a small private house was rented in Pomona, and the work of instruction was begun in September, 1888. In the following January an unfinished hotel in Claremont (now Greer Hall), together with considerable land adjacent, was given to the College and the work was transferred to that place. Although this location was originally regarded as temporary, it was later made the permanent seat of the College. At this time, however, the name of "Pomona College" had become

so definitely fixed that it has been retained, notwithstanding location.

The growth of the College has been swift and constant. The first class was graduated in 1894, at which time the total number of college students was forty-seven. Since 1915 the enrollment has been held at approximately 750 divided equally between men and women and among the four classes, a limitation which permits selection from a large number of applicants.

A NEW DEPARTURE

The imperative demand for expansion led to the adoption under the inspiring leadership of President James A. Blaisdell of the group plan of affiliated colleges, in which the obvious advantages of the small college are retained while still making possible the gathering together of the equipment that is justified only in a large university. To this end "Claremont Colleges" was incorporated October 14, 1925, and the first of the new units known as Scripps College in honor of Miss Ellen Browning Scripps whose generosity and vision made it possible, was opened in September, 1927, as an affiliated but separate college for women.

These three institutions, Pomona, Scripps and Claremont are independent but cooperate in the establishment of certain mutual facilities. In approved cases, there is also an exchange of classroom privileges between the colleges. Certain functions such as the summer school, graduate and research work are carried on in cooperation. The buildings and facilities under Claremont Colleges and the laboratories under Pomona are for the use of Claremont Colleges, with its own trustees known as "The Board of Fellows" some of whom are also trustees of Pomona and Scripps, constitutes a central group, focusing a mutual effort to return to each member of that group a stimulating and inspiring influence. Through the bequest of the late Seeley W. Mudd, first chairman of its Board of Fellows, and erstwhile trustee of Pomona College, Claremont Colleges received a gift of one million dollars for the establishment of its work.

POMONA'S PART

Naturally as the parent institution, Pomona College has had to make adjustments and sacrifices in behalf of the new plan for the time being to house or foster functions which ultimately

ould be assumed by the central organization. Pomona's proper program is to continue as a co-educational college of liberal arts and sciences, with an enrolment limited to 750.

CLAREMONT COLLEGES

Thus far the general services undertaken by Claremont Colleges in behalf of the group include the administration of the health service, the development of a central heating plant, the erection and administration of an auditorium seating 2,500, and the erection of a building to house the central library and the common business offices of the group. The inauguration of some special library collections and the subsidy of research projects of members of the faculties are also the forerunners of larger developments under the auspices of Claremont Colleges.

POMONA'S IDEAL

The real heart of the Claremont plan lies not in its provision for graduate study but rather in the enhancement of scholarly life among undergraduates, and Pomona represents the effort to attain in an exceptionally favorable environment a small independent residence college where the inestimable advantages of intimacy are secured, but where the advantages of ample facilities and intense competition are also secured by its association with the other colleges situated in close proximity to it, and where the selective process assures, as nearly as possible, a company of students who will really profit by college experience.

POMONA'S PROGRAM

From the very beginning Pomona College has maintained a reputation for interest in thorough scholarship rather than in large numbers. Membership in the institution itself is regarded as a scholastic honor. Pomona holds that scholarship should not be high but also broad and inclusive. It is not a professional school. It insists that the best preparation for life includes not only the ample, generous and complete training of the college course, such as is here given, but also at a later period a thorough and definite professional specialization. The College has been largely successful in permeating its body of students with these ambitions. A very large percentage of its graduates have

taken subsequent professional training, many winning scholar awards in other institutions.

The courses offered in Pomona College cover the whole range of the humanities and the sciences, while the fine arts, especially music, are duly emphasized. Various combinations of fundamental courses are presented as adequately preparing for professional studies in engineering, medicine, law, or education.

HONORS WORK

Since September, 1924, Pomona has been developing the so-called honors type of instruction, the purpose of which is to give students of more than average ability from some of the routine requirements such as compulsory attendance in classes, frequent tests and conformity in the study of textbook assignments. Such students are encouraged to limit the scope of their work and to concentrate, in their junior and senior years, in their chosen field of study, preferably in programs composed of one major subject and one or two minors, so that the student may achieve a certain mastery and a sense of unity of knowledge in a fairly large division of learning. The student is offered the opportunity of periodic private conferences with his major adviser, who helps him plan his courses and his reading, criticizes his reports, and helps him achieving that integration of learning which constitutes a liberal education.

In a word, Pomona College, in the midst of a very rapidly developing region of Southern California, is endeavoring to maintain the values of a broad cultural preparation for life.

SOCIAL TRAINING AN ESSENTIAL PART OF EDUCATION

In seeking to achieve this purpose Pomona is making use of living conditions, dormitories, dining halls, social intercourse to an extent and in a way not yet adequately developed in American colleges generally, as a fundamentally important part of the undertaking.

Dining in the great hall for men or in the women's new hall induces social amenities not acquired otherwise. Exchange of ideas between the women's campus and the men's campus affords opportunities for social intercourse and entertainment at no expense. The fraternities have their special rooms within the dormitories in close association with the rooms assigned to members of the several groups.

Pomona's co-educational character greatly increases the culture of its student body. Working together on the highest levels of life, men and women are most likely to associate in mutual respect and dignity. The graduates of this college testify that the relations add to the genuine wholesomeness and rounded growth of the student's life. While emphasizing social values and opportunities, the college, however, holds them subordinate to the main business of study and work.

Since the determining purpose of the College is to help each student to develop for himself an adequate philosophy of life, it is obligated to promote the consideration of those age long spiritual aspirations and interpretations which constitute religion and to urge each student to correctly correlate these factors with the discoveries resulting from the application of careful scientific method in all other fields of human investigation. The College does not ask its students to adopt any given set of religious interpretations but it does ask each one, as an indispensable part of his education, to seek an interpretation of his own guided by a critical study of those arrived at by others. It thus seeks to re-educate the coming generation with a leadership of intellectual integrity, directed will and noble character.

While originally Congregational in organization, the College long ago made itself the servant of a wider fellowship. The Board of Trustees is a self-perpetuating body, absolutely free from ecclesiastical control but pledged nevertheless under its charter to maintain the institution as truly Christian, though non-sectarian.

POMONA'S FUTURE

The early aspirations and hopes of Pomona's founders have already been sufficiently realized to warrant a higher degree of expectation for the future.

Pomona has its own peculiar place and its distinctive contribution to make; selecting its students with care, seeking to serve those who truly desire advanced liberal education; and above all free to experiment and to adventure in new fields and new methods without at the same time departing from its major task of preserving the finer traditions of cultural learning so greatly needed today.

From the very beginning Pomona College has been the crea-

tion of sacrifice, affection and idealism. It has been made possible by a great democracy of high minded givers, whose character and ideals are reflected in the daily life and procedure of College.

BUILDINGS AND EQUIPMENT

In addition to the grounds and buildings administered by Claremont Colleges in behalf of both Pomona College and Scripps College, Pomona College itself occupies about one hundred and twenty acres, of which sixty are included in Blanchard Park, about ten in Alumni Athletic Field, and fifty in the campus proper, centering in Marston Quadrangle.

There are nineteen buildings on the campus, heated from a central heating plant operated by Claremont Colleges.

The Mary L. Sumner Hall, named in memory of the wife of Rev. Charles B. Sumner, LL.D., one of the Founders of Pomona College, has been removed from its original site and remodeled for administrative and faculty uses.

Holmes Hall, a memorial of Cyrus W. Holmes, Jr., of Massachusetts, reconstructed in 1916 in conformity with modern plans for buildings and campus, is devoted mainly to chapel and recitation rooms, departmental offices and the offices of the Associated Students.

The Business Office of Pomona College is maintained in Harvard Hall, administered by Claremont Colleges.

The Library, the gift of Mr. Andrew Carnegie, is an imposing structure, well adapted to the purposes for which it was built.

The Albert K. Smiley Hall, the first dormitory for men, accommodates sixty-five students and one instructor. It is completely furnished with all modern conveniences.

The Eli P. Clark Campus for Men includes: The Dormitory for Freshmen, which provides superior quarters for some thirty students besides the House Master and one or more instructors; two additional dormitories accommodating some 165 upperclassmen; Frary Hall, the Dining Hall for Men, the gift of Mr. George W. Marston and others, named in memory of Rev. Lucien Frary, a member of the Board of Trustees from 1892 to 1901. Besides the Great Hall which will seat 450, there are three small dining rooms for the use of special groups as required.

Harwood Court, a modern and pleasing dormitory which includes Strong Hall, accommodates about one hundred and eighty

men, who are also served by the Aurelia Squier Harwood Memorial Dining Hall.

The College also owns several cottages, in which similar accommodations can be secured. These facilities have been made possible by generous gifts from friends of the College.

The Claremont Inn has three large dining-rooms and accommodations for eighty guests.

Embrandt Hall, the first section of the Art Building, is dedicated chiefly to the work of the Department of Art. The upper floor contains studio and work rooms; the lower floor a convenient auditorium of moderate size for exhibits and assemblies.

The Mabel Shaw Bridges Hall of Music, the gift of Mr. and Mrs. Appleton S. Bridges, of San Diego offers excellent facilities for the study of music.

The Mabel Shaw Bridges Auditorium, under the auspices of Claremont Colleges, has a seating capacity of 2500 and is available for Pomona College events. It, too, was the gift of Mr. and Mrs. A. S. Bridges in memory of their daughter who attended Pomona College.

The Open-Air Theater, built to take advantage of the natural setting of Blanchard Park, though uncompleted, has at present a seating capacity of over 4000.

The Gymnasium, comprising two structures, affords ample equipment for indoor physical training supplementing the various outdoor fields for men and for women.

The Memorial Training Quarters stands as a remembrance of Pomona College men who lost their lives in the Great War. It represents the gift of the parents of one of those men, Sheldon W. W. '17, supplemented by those of alumni, students and friends. Beside the Training Quarters is a modern standard size swimming pool for men.

The Pearsons Hall of Science, the gift of Dr. D. K. Pearsons, contains the laboratories and lecture rooms of the departments of physics and mathematics.

The Frank P. Brackett Observatory, the gift of Mr. Llewellyn P. Brackett, '01, is designed to be of service to the student in the direct study of the stars.

The Harwood Hall of Botany, the gift of Mr. A. P. Harwood, contains lecture rooms and laboratories for the use of the Departments of Botany and Psychology.

The Mason Hall of Chemistry, the gift of Mr. W. S. Ma provides ample facilities for the study of Chemistry.

The Crookshank Hall of Zoology, the gift of Mr. D. C. Crookshank, provides amply for the needs of the Department of Zoology.

The Marine Laboratory, located at Laguna Beach, has 11 private rooms for special workers and two general laboratories as well as storerooms, work rooms and aquarium room.

The Pomona College summer camp at Bluff Lake in the Bernardino Mountains consists of five cabins, located on the top of 120 acres given to Pomona College by Mr. J. S. Edwards. The camp, at an elevation of 7,500 feet, is in a region of great unspoiled natural beauty.

The College operates its own independent deep well water supply, the gift of Edward P. and Mary G. Bosbyshell.

The Medical Dispensary and the Infirmary operated by Claremont Colleges include the students of Pomona College in their service.

THE LIBRARY

The Library, of 72,082 books and 66,782 pamphlets, has been carefully selected, and is a working library of exceptional value.

The College possesses also the following library collections administered by the main library: The Cook-Baker Biological Library, the Parrish Botany Library, the James A. Lyman Memorial Library of Chemistry, the Astronomical Library, the New England Collection, the Geology Library, the Mason Library of California and Western American History, the Viola Miller Westergaard Art Collection, and the Carnegie Art Collection.

The main Library, the New England and the Mason California Libraries and the Westergaard and Carnegie Art Collections are housed in the Carnegie Library Building; the Cook-Baker Library and the Parrish Library in Crookshank Hall; the Astronomical Library in the F. P. Brackett Observatory; the James A. Lyman Memorial Library and the Geology Library in Mason Hall of Chemistry.

The Library is a depository for the publications of the Carnegie Institution of Washington, and for the United States Government documents. It has a large and well selected list of the most valuable research and general periodicals, including many complete files.

The library of Claremont Colleges, comprising 7500 volumes

cluding the George Burton Adams Library of English History, the Paul Hensel Library of Philosophy, and the Nollen Library (German Literature) is housed in Harper Hall and is available to all students and instructors.

The library of Scripps College, at present about 7000 volumes, is housed in the Ella Strong Denison Library on the Scripps campus, and its resources are also available to students and teachers in Pomona College.

LECTURE FOUNDATIONS

THE JOSEPH H. JOHNSON FOUNDATION

The Joseph H. Johnson Foundation, liberally endowed by Miss Helen B. Scripps, provides an annual income for the purpose of bringing to the College for a protracted stay and intimate participation in college life notable educators from other institutions. This means such educators are annually in residence in Pomona College. The opportunity of intimate contact with distinguished instructors thus afforded to undergraduates is a unique privilege, often surpassing the privileges of the classroom of the institution in which these educators come.

THE HENRY D. PORTER FOUNDATION

The Henry D. Porter Foundation, named in honor of the late Mr. Henry D. Porter, for many years a missionary in China, brings to the institution annually, the extended stay of some eminent worker in the field of Christian Missions. The lecturer from this foundation commonly shares in the regular classroom work related to the history, geography, politics or religion of the region in which he has been actively at work. This vivid representation of the missionary life is one of the most stimulating features in the spiritual program of the College.

THE CLARK FOUNDATION

The Clark Foundation, established by Mr. Arthur O. Clark, makes it possible for the College to offer each year a lecture or course of lectures in the general field of religion.

MUSIC

In order to insure to the entire student body the opportunity of seeing and seeing the great artists of the day, whose public appearance is usually confined to the larger cities, the College co-

operates with Scripps College and Claremont Colleges in the introduction each year of a group of the most distinguished masters in the field of music. For the concerts thus afforded an annual ticket is furnished to every student.

ADMINISTRATION

GENERAL REQUIREMENTS

Students are expected to be loyal to the spirit and purpose of the institution and to maintain regular attendance on all College appointments. Any student who falls below grade in scholarship, or who, for any reason, in the judgment of the faculty or its proper committees, is felt not to be a desirable member of the student body, may be dismissed without specific charges.

It is urgently pointed out to both students and parents that the value of a college education consists in no small degree in the fullest participation in the college atmosphere and life. It is important, therefore, that all absence through the college year should be avoided. Some of the most important of the college values are lost by absences on Saturday and Sunday, on which days are centered particular and vital phases of the common life, and it is therefore urged that over-Sunday visits at home or elsewhere be avoided.

PUBLIC ASSEMBLIES

It is the practice of the College to give opportunity for the consideration and expression of the common college interests.

On Tuesday and Thursday at 10:00 a.m. a brief devotional chapel service is held.

Approximately once each month during the college year a special convocation is called for the consideration of topics of vital interest to the whole institution. Full attendance of both faculty and students is expected at these exercises.

The policy of the College is to urge the students to associate themselves for worship with the Claremont Church or those in neighboring communities. For this reason there is no regular appointment for College worship on Sunday, though many forms of religious activity are maintained in connection with the churches.

PHYSICAL ATTENTION

The physical care of students is a matter of special concern to the College and the advantages of unusual attention and opportunity are offered. The climate of Southern California offers

out-of-door life the year round. Supervision is given to athletics all seasons. A regular physician is on the staff of Claremont Colleges, under whose direction every student on entering has a physical examination. Regular work in physical education is prescribed throughout the four years, and courses in Physiology and Hygiene are given. The medical advice of the College physician is ordinarily available free of charge to all students, subject to certain conditions of hours and location of residence, the College meeting these bills; provided that all nursing, surgical dressings, and medicines as well as medical service in chronic or protracted illness are at the expense of the ill or injured. *The College, however, reserves the right to discontinue this individual medical service at any time without previous notice.*

ATHLETICS. The direction and financial management of athletics rest with the Director of Athletics, who has associated with him as an advisory body the Athletic Council, composed of three members of the faculty and three students. Under the general manager there is a student manager for each sport.

Alumni Field, consisting of about ten acres, has been developed by the alumni into athletic grounds admirably equipped and unsurpassed in the Southwest in beauty of setting. First-class tennis courts, an excellent track, baseball and football fields, also hockey and basketball courts are within the limits of the campus, the courses of the Indian Hill Golf Club are available, and athletic exercises and field sports are encouraged by the officers of the institution.

A swimming pool, of the standard size for water polo, and fully equipped with modern appliances, is open to men.

Students are required to maintain a satisfactory standard of excellence in all their studies in order to represent the College on behalf of its athletic teams or other organizations coming before the public.

LIVING CONDITIONS

All rooms in the College residence halls are rented for the College year. The charge for rent does not include the use of the halls during the Christmas and Spring vacations, when the halls are closed. The residence halls are opened the Saturday before the opening of the College year and closed the second day after commencement.

A deposit of \$10.00 is necessary to reserve a room and should

accompany the application for the room. This amount is retained as a breakage fee, from which deductions will be made for individual and communal damages to the building, the balance being returned at the end of the year. Rooms are assigned to students in order of application.

The College reserves the right to dismiss from a dormitory without rebate any student who becomes a disturbing or undesirable occupant.

RESIDENCE FOR MEN

The College is equipped with dormitory and dining hall facilities to accommodate all men students and it is expected that men not actually living at home will live in the college dormitories and board in *Frery*, the dining hall for men.

Dormitory and dining room privileges are provided only on a basis of an inclusive yearly charge for both board and room, the rate varying from \$400.00 to \$550.00 per year. This charge includes necessary furniture, rugs, bed linen and towels, the laundering of the same and the care of rooms. The only articles to be furnished by the student are covers for a single bed.

SMILEY HALL has both single and double rooms and suites; three rooms accommodating two students.

ON THE ELI P. CLARK MEN'S CAMPUS, the hall for freshmen is provided with suites of two rooms—study and bedroom—for two students. The other halls have both single rooms and suites.

RESIDENCE FOR WOMEN

It is assumed that, as far as possible, students will room at the College residence halls and board at the women's dining-room in Harwood Court. Any other arrangement for room or board must have the approval of the Dean of Women. Lists of approved rooming and boarding places for women are kept at the office of the Dean of Women. All rooms in the College residence halls are rented for the college year. Unless there is a written agreement to the contrary, it is assumed that rooms in private houses are rented for one semester. Change of rooms is made only by permission of the office of the Dean of Women.

HARWOOD COURT, the residence hall for women, in which is included the dormitory known as STRONG HALL, has both single and double rooms, as well as suites. The COTTAGES have double rooms. Each room is provided with the necessary furnishings, and

ing rug for the floor; the only articles to be furnished by the student are towels, linen, and covers for a single bed.

BOARD. Dormitory and dining-room privileges are provided on the basis of an inclusive yearly charge for both board and room, the rate varying from \$430.00 to \$500.00 per year.

EXPENSES

TUITION

Regular tuition, including all general privileges, Music Course Ticket, Library privileges, etc., per semester.....\$150.00
 Tuition for students carrying less than twelve units of work, for each such unit, per semester exclusive of above general privileges 15.00
 Laboratory fees as stated after description of courses.

CHARGES IN MUSIC

For those paying regular tuition:
 For one half-hour private lesson in music per week, per semester\$ 45.00
 For each half-hour private lesson in excess of one per week, per semester 40.00
 For those carrying less than twelve hours of college work, exclusive of work in music:
 For one half-hour private lesson in music per week, per semester 60.00
 For each half-hour private lesson in excess of one, per semester 40.00
 For class lessons in applied music, per semester..... 25.00
 For Associated Students, per semester..... 5.00

This charge is made upon all regular students by action of the Associated Student Body. Recognizing the value of the activities supported by this fee, the College requires its payment and reserves the right to approve the budget for which it is spent.

FEES

Application fee, \$2.50.
 Graduation fee, \$10.00.
 Every student expecting to graduate at the end of any given semester must so indicate on his registration card for that semester and must include the graduation fee with the payment of his other fees at the time of such registration. Failure to indicate such expectation or thus to pay the graduation fee will automatically exclude from graduation that semester.
 Laboratory fees range from \$2.00 to \$15.00. The exact fee for any given course is stated in connection with the description of

that course under *Courses of Instruction*; in advanced course only does it exceed \$10.00.

A visitor's fee of \$10.00 per course is required from those visiting a course of study.

BREAKAGE DEPOSITS

Bacteriology and Plant Physiology, \$5.00 each.
Chemistry, \$10.00 for each course taken.

PRACTICE FEES

PIANO

One half-hour daily, per semester.....
One hour daily, per semester.....

GRAND PIANO

One hour daily per semester.....

GREAT ORGAN IN BRIDGES HALL

One hour weekly, per semester.....

TWO-MANUAL PRACTICE ORGAN

One hour weekly, per semester.....

PEDAL ORGAN

One hour daily, per semester.....

VIOLIN, CELLO OR FLUTE

Room without piano, one hour daily, per semester.....

Additional hours at same rate.

BOARD AND ROOM

See pages 29 and 30.

ESTIMATE OF GENERAL YEARLY EXPENSES

	Minimum	Average	Generous
General Tuition	\$300	\$300	\$300
Board and Room	400	475	550
Books and Fees	35	45	100
Personal Expenses	125	180	300
Total	\$860	\$1000	\$1250

BILLS. All College bills are due each semester in advance and must be paid by the student at the time of registration. Payment for room and board on an installment plan may be arranged in conference with the Controller at an extra charge of one dollar for each extra payment. No refunds are made to those leaving before the end of the semester except that in the case of those leaving before the middle of the semester because of illness or

If the tuition and laboratory fees are refunded and in the case of those dropping out for good cause within a week of their registration all but \$25.00 is returned. No refund is made on a room payment unless the room is re-rented to someone not then rooming in a college residence hall.

Students are not given honorable dismissal nor graduated whose bills are not paid. Seniors must settle all recognized bills by four o'clock of the fourth day preceding Commencement if they are to receive their diplomas with their class.

CAMPUS ORGANIZATIONS

THE ASSOCIATED STUDENTS. This association coordinates all student activities. Its officers are chosen by the student body or their own number. All important questions are considered by an executive committee, which is composed of those prominent students of varied lines as athletics, oratory, and the editorship of the Student Life.

ASSOCIATED WOMEN STUDENTS. The women of the student body form a voluntary organization, electing their own officers and holding regular meetings. This organization considers and promotes the special interests of the women.

STUDENT-FACULTY COUNCIL

In order to provide a definite channel for the discussion of college problems which directly concern both students and faculty, a joint council composed of the Faculty Committee on College Relations and the members of the Student Executive Council has been organized and holds regular fortnightly meetings. This joint council is not a legislative body but from time to time makes suggestions to both faculty and student groups for further consideration and action.

CLASS ORGANIZATIONS. Each of the four college classes is organized for the purpose of promoting class social life.

DEPARTMENTAL ORGANIZATIONS. Astronomical Society; El Círculo Español; Le Cercle Français; Il Circolo Italiano; History Club; Mathematics Club; German Club; Science Club.

THE PHI BETA KAPPA SOCIETY

The Pomona Chapter of Phi Beta Kappa is the Gamma of California.

Upperclassmen "who are of good moral character, who are

candidates for the degree of Bachelor of Arts, and who are distinguished for breadth of culture and excellence of scholarship are eligible to membership in the Phi Beta Kappa Society.

HONOR SOCIETIES. Alpha Delta Mu,—Journalism Fraternity; Gamma Chapter, Alpha Kappa Delta,—Sociology Fraternity; Delta Sigma Rho,—Forensic Fraternity; Ghosts; Honorary Club; Mortar Board; Valkyries; Varsity Society.

LOCAL FRATERNITIES. Alpha Gamma Sigma; Kappa Iota Kappa; Kappa Theta Epsilon; Nu Alpha Phi; Phi Delta; Phi Kappa Alpha; Sigma Phi Alpha; Sigma Tau.

LITERARY SOCIETIES. Alpha Kappa; Delta Lambda; Phi Iota Sigma; Scribblers.

MUSICAL ORGANIZATIONS. Men's Glee Club; Women's Glee Club; Little Symphony Orchestra; Band (R.O.T.C.)

RELIGIOUS ASSOCIATIONS. Young Men's Christian Association; Young Women's Christian Association.

MISCELLANEOUS ORGANIZATIONS. Cosmopolitan Club; Forensic Union; Masquers,—Dramatics; Orchesis,—Dancing; Sigma,—Riding.

PUBLICATIONS

The stated publications of the College are issued as numbers of the *Pomona College Bulletin*, which is published bi-monthly. These include:

The *Annual Catalog*.

The *Register of Alumni*.

The *Report of the President* and special topical numbers.

Alumni and departmental publications are:

The Pomona College Magazine, devoted to the interests of the College and Alumni.

The Journal of Entomology and Zoology, published under the auspices of the Department of Zoology.

STUDENT PUBLICATIONS

The *Student Life* is published daily except Sunday and Monday by the student body and is devoted to current affairs.

Manuscript is a literary magazine issued four times a year.

The *Metate* is published each year by the Associated Students and contains material appropriate to a college annual.

The *Hand Book*, which contains material designed especially for new students, is issued at the beginning of the year by the Associated Students.

PRIZES, SCHOLARSHIPS AND STUDENT AID

Financial aid for students in Pomona College is available in different forms: Grants in aid, loans, departmental prizes, and scholarships.

Grants in aid and loans are administered by the Committee on Student Aid, which presents its recommendation to the President and Controller for confirmation.

Departmental prizes are administered by the respective departments, each of which reports its awards to the President of the College and the Secretary of the Faculty.

Scholarships in Pomona College are of three kinds: Departmental, General and Special.

Departmental and General Scholarships are competitive; Special Scholarships are only partially competitive and are administered in special ways but are reported to the Committee on Scholarships.

Each Departmental Scholarship is administered by the department concerned, which reports its award to the Committee on Scholarships.

General Scholarships are administered by the Committee on Scholarships, which reports its awards, as well as all departmental awards, to the President of the College and the Secretary of the Faculty.

Announcements of prizes and scholarship awards are made by the President of the College.

PRIZES

The following prizes are offered for proficiency in the work of several departments:

ART

EUGENE C. CRAMER PRIZES: A first prize of \$15.00 and a second prize of \$10.00 awarded for excellence in drawing and design in work presented for the annual exhibition in May. Given by Mrs. Eugene C. Cramer in memory of her husband, who was an artist.

ASTRONOMY

MONCRIEFF ASTRONOMY PRIZE: A prize given to the student in the first year course in Astronomy, taken regularly in class, whose interest in the study and proficiency in the observational work are indicated by the best notebook kept in accordance with the teacher's suggestion. A prize of ten dollars is given by Miss Flossie C. Moncrieff, '11.

PRIZES

DEBATE

THE DOLE PRIZES: A prize debate upon some subject selected by the faculty is arranged for the close of the second semester. First and second prizes of fifteen and ten dollars, respectively, established by the late Mr. J. H. Dole, in memory of his brother, Mr. W. B. Dole, are endowed by Mr. J. Albert Dole and Mr. A. M. Dole.

DECLAMATION

THE KINNEY PRIZES: A prize declamation contest, open to the members of the Freshman class, occurs near the middle of the year. First and second prizes of fifteen and ten dollars, respectively, are endowed by Mrs. H. N. Kinney.

ECONOMICS

THE VAILE PRIZES: Prizes for the best essay or oration on the general subject of Agriculture in Southern California open to the Junior and Senior classes, were endowed by the late Mr. Charles S. Vaile. At present first and second prizes of fifteen and ten dollars respectively are offered.

ENGLISH

THE JENNINGS PRIZES: Eight prizes awarded at the end of each semester to Freshmen taking English A1, to the two men and the two women showing the best mastery over written and oral expression and also two to the men and two to the women showing the most gain during each semester in these respects. The total amount of the prizes is \$600.00, the gift of Mr. F. Jennings of San Diego.

GENERAL

THE RENA GURLEY ARCHIBALD HIGH SCHOLARSHIP PRIZE: A prize of fifty dollars to be awarded to that member of the graduating class taking the B.A. course and ranking highest in scholarship, established by the bequest of the late Reverend Andrew W. Archibald, D.D.

LATIN

THE MUDGE LATIN PRIZES: Prizes for excellence in Latin. First and second prizes of ten and five dollars, respectively, are endowed by friends of the College.

MATHEMATICS

THE LLEWELLYN BIXBY MATHEMATICS PRIZE: A prize for excellence in Analytic Geometry and Calculus; open to all students completing both Mathematics A1 and B15. A prize of ten dollars is given by Mr. Llewellyn Bixby.

MUSIC

THE BARBARA SANFORD ALLEN PRIZE: An annual competition prize of fifty dollars to be awarded to a student of or near

ying in the Department of Music. This award is made possible by the husband and parents of a graduate of the Class of 1915 of Pomona College.

PHYSIOLOGY

THE LORBEER PRIZES: Prizes for the best essay on the subject, "How to Keep Well"; open to all who take the course on "The Human Body." First and second prizes of fifteen and ten dollars, respectively, are offered by Dr. Thomas L. Lorbeer, '03.

RELIGION

THE HAGER PRIZES: Prizes for the best essays on a foreign missionary subject, open to all students were endowed by the late Mr. and Mrs. C. R. Hager. At present three prizes of ten dollars each are offered.

DEPARTMENTAL SCHOLARSHIPS

ART

THE HANNAH TEMPEST SCHOLARSHIP FUND OF \$5,000. Income to be divided equally between a man and a woman studying art, in accordance with conditions laid down by the donor, Mrs. Hannah Tempest Jenkins.

MILITARY

Students who have completed the basic course in Military Science and Tactics (or its equivalent) are eligible for enrolment in the advanced course of the Reserve Officers' Training Corps. Students enrolling in the advanced course enter into an agreement to complete the two years' course and to attend a six weeks' summer training camp. In consideration of this agreement, students receive from the government cash allowances equivalent to scholarships of \$100.00 per year. All necessary expenses in connection with summer camp, including transportation to and from the camp, are provided by the government.

The number of students admitted to the advanced course is limited to about fifteen per year. Selection of students for enrolment is based upon excellence in military training and suitability for eventual appointment as second lieutenants in the Officers' Reserve Corps. Students who present evidence of above average records in military training in R.O.T.C. units of preparatory schools will be given consideration in the selection of those to whom these scholarships will be awarded.

MUSIC

THE KATE CONDIT BRIMHALL MEMORIAL MUSIC SCHOLARSHIP FUND, \$2,000. Given by the late Mr. and Mrs. A. P. Condit.

SPECIAL SCHOLARSHIPS

KAPPA DELTA HONOR SCHOLARSHIP ENDOWMENT OF \$1,801.15. Given by members of Kappa Delta Fraternity. The income from this endowment is supplemented by individual

pledges to yield a scholarship of \$250, administered under special committee. Awarded to a man at the beginning of senior year.

THE FLORA SANBORN PITZER MEMORIAL SCHOLARSHIP. \$50 year from The Sanborn-Pitzer Foundation established by Russell K. Pitzer (Pomona 1900) in memory of his wife (Pomona 1901). Awarded to a student selected by the Foundation.

GENERAL SCHOLARSHIPS

Except as a donor may have given specific instructions to the contrary it is the practice of the Committee on Scholarships to make awards to candidates who indicate great promise in:

- (1) Literary, scientific or other scholastic ability and attainments.
- (2) Qualities of manhood or womanhood, force of character, and power to lead and to take an interest in schoolmates.
- (3) Physical vigor as shown by interest in outdoor sports or in other ways.

The preferred applicant will excel in all three of the categories listed, but in the absence of such preferred combination the committee may select an applicant who shows distinction in one of the first two over an applicant who shows a lower degree of promise and excellence in all. In any case interested participants in activities which sustain physical well-being constitute an essential qualification, though superior skills and excellence in such matters are not given undue weight.

Before making application for a scholarship to the Committee on Scholarships, applicants who are not already students at Pomona College must file application for admission to the College with the Committee on Admissions. In the case of freshmen it is ordinarily expected that they will not have attended any other college or university. Exceptions to this rule require special committee action. A freshman applicant shall be endorsed by the head of the school from which he comes, and will be required to indicate the subjects, not more than three in number, in which he is prepared to take examinations. Information concerning time and place of examinations will be furnished immediately following April 1st. The Committee on Scholarships reserves the privilege, in case of doubt, to require further, any necessary evidence, by examination or interview, which it may deem necessary to determine the candidate's fitness.

The following scholarships are available for the academic year 1933-34, half of the stipend being available for the first semester and half for the second:

Two scholarships of Five Hundred Dollars Each. From income of the Henry E. Storrs and Julia A. Storrs Foundation; open to men and women who are candidates for admission to the Freshman Class.

Two Scholarships of Three Hundred Dollars Each. From the income of the Thomas J. Dowling Fund; open to both men and women who are candidates for admission to the Freshman Class.

One Scholarship of One Hundred Seventy-five Dollars. From the income of the Henry G. Brainerd and Fannie Howard Brainerd Scholarship Fund; open to both men and women who are candidates for admission to the Freshman Class.

Applications for these scholarships should be made to the Committee on Scholarships on or before April 1st.

Announcement of awards will be made on or before July 1st.

The Olivia Phelps Stokes Scholarship Fund, \$47,000. Bequeathed by the late Olivia Eggleston Phelps Stokes of New York and San Francisco, California.

Fifteen awards of \$150 each are available each year on a semester basis, eight being awarded for the first semester and seven for the second semester.

Applications for these Scholarships should reach the Committee on Scholarships before May 15th for the first semester of the following academic year and before January 15th for the second semester of the current academic year. As a rule the Stokes Scholarships are not awarded to entering Freshmen.

FELLOWSHIPS

Fellowships offered by Pomona College are competitive and are administered by the Committee on Scholarships. The following award may be made for 1933-34 if qualified applicants present. Applications should be in the hands of the Committee on Scholarships by February 1, 1933.

THE WILLIAM LINCOLN HONNOLD FOUNDATION fellowship stipend varying from eight hundred to fifteen hundred dollars, as determined by the committee of award, according to circumstances; open to students who have done four full years of work in Pomona College, who are rated in the upper half of the graduating class, on the basis of their performance during both junior and senior years, and who wish to continue their studies in advanced work either in Claremont Colleges or elsewhere in America or abroad.

Should the student selected desire to waive the emolument stipend may be paid to the candidate next in rank, while the first is retained by the first student who would be designated Honnold Fellow for the year.

The appointment will be for one year, but satisfactory and conduct may earn a renewal, so that a really successful candidate may enjoy the fellowship for two or possibly three years while at the same time a new appointment may be made to the graduating class each successive year.

The prime purpose of the fellowship is to promote scholarship rather than merely to reward faithful classroom work. For this reason preference will be given to candidates preparing for scholarly rather than professional work, and the selection will be based not on scholarship only but on the possession of those personal qualities which indicate a high degree of promise in a student of outstanding character. The choice of the institution for graduate work is to be done in consultation between the candidate and the Committee on Scholarships, the committee having final authority. At the end of each year of tenure the beneficiary of a Honnold fellowship is to make a full report to the Committee on Scholarships covering the character of his work, impressions of the institution in which he has been residing, his plans for the immediate future, and recommendations for the further development or improvement of this fellowship plan.

OTHER AWARDS

The Committee on Scholarships also nominates students of Pomona College who wish to apply as candidates for other scholarships and fellowships awarded by other institutional foundations. Those who seek nomination to the Rhodes scholarships should advise with the Committee on Scholarships; likewise those who wish to be considered in the award of the Scholastic Award for the summer session of the National University of Miami. The awards in the latter case are made by the Educational Council of Claremont Colleges to competent applicants from the junior, seniors, and alumni of Pomona College and Scripps College.

GRANTS IN AID

The income of certain funds is used towards paying the tuition fees of students who are in pecuniary need. Such aid is given only to students who are or intend to become candidates for a degree from Pomona College, who maintain a high standard

who are economical in their habits, who are regular in attendance upon college exercises, and who maintain, after first semester of the Freshman year, at least "C" grade in scholastic work.

The College aims to realize the ideal that no student worthy graduation should withdraw ahead of time for purely financial reasons. To that end the Administration welcomes the opportunity to confer with students who need assistance.

Applicants for aid who have not yet entered College should send to the Chairman of the Committee on Student Aid, a full application accompanied by two letters, one from parent or guardian and the other from principal or teacher, giving information concerning need, character and attainments. They should also send a certified statement of their scholastic record. Applications for aid should be made on or before May first. Address Committee on Student Aid, Sumner Hall.

Aid may be withdrawn at any time from students who prove they have conformed to the conditions.

Recipients of grants in aid may be called upon to assist the college in ways that do not interfere with their studies.

STUDENT AID FUNDS

GENERAL

THE FRANCIS BANCROFT MEMORIAL FUND, \$1,500. Given by Mr. James T. Ford of Los Angeles, California, in memory of his father.

THE BARROWS FUND OF \$2,500. Given by L. H. Barrows of Pasadena, California.

THE H. G. BILLINGS MEMORIAL FUND, \$1,000. Given by Mrs. E. A. Billings of Los Angeles, California, in memory of her husband.

THE FLORENCE G. BIXBY FUND, \$5,000. Given by Florence G. Bixby of California.

THE BRISTOL MEMORIAL FUND, \$400. A fund raised as a memorial to the Reverend Sherlock Bristol.

THE BESSIE A. BROWN MEMORIAL FUND, \$1,000. Given by Mrs. Fannie E. Brown of Los Angeles, California, in memory of Bessie A. Brown.

THE HENRY HERBERT BROWN MEMORIAL FUND, \$1,000. Given by Mrs. Fannie E. Brown of Los Angeles, California, in memory of her son.

STUDENT AID FUNDS

THE CLASS OF 1918 FUND OF \$961.78. Given by the Class of 1918.

THE CHARLES C. CRAGIN MEMORIAL FUND, \$5,025. Given by Mrs. Laura E. Cragin in memory of her husband, Rev. Charles C. Cragin.

THE AGNES K. CRAWFORD MEMORIAL FUND, \$1,000. Given by David R. Crawford and William Crawford, in memory of the mother.

EBELL CLUB OF POMONA STUDENT AID FUND, \$1,000.
To help, preferably, a girl.

THE ELWOOD FUND OF \$2,600. Given by Mary E. Elwood of Redlands, California.

THE FORD FUND OF \$2,500. Given by Rev. James T. Ford of Los Angeles, California.

THE FOWLER FUND OF \$1,000. Given by Mrs. Margaret Fowler of Pasadena, California.

THE ORREN A. GORTON FUND OF \$5,000. Established by the will of Orren A. Gorton of Sherburne, New York.

THE EMMA K. GUILD FUND OF \$44,329.88. Given by Emma K. Guild of Claremont, California.

THE MANETTE HAND MEMORIAL FUND OF \$1,500.

THE ALFRED JAMES HARWOOD MEMORIAL FUND, \$8,000. Given by Alfred P. Harwood of San Dimas, in memory of his son.

THE CHARLES E. HARWOOD FUND OF \$5,000. Given by Charles E. Harwood, LL.D., of Upland.

THE MARGARET BURTON HARWOOD MEMORIAL FUND, \$47,025. Given by Mr. Alfred P. Harwood and his three children, in memory of their mother.

THE THOMAS F. HOWARD "MEMORIAL SCHOLARSHIP FUND" OF \$3,500. Given by Dr. and Mrs. H. G. Brainerd of Los Angeles, California, in memory of Mrs. Brainerd's father.

THE MARY MARVIN JANES FUND OF \$296.93. Given by Mary Marvin Janes of Pasadena, California.

THE KUNS FUND OF \$2,000. Given by Henry L. Kuns of Los Verne.

THE LOOMIS FUND OF \$2,000. Given by Miss Jean Loomis, '90.

THE HOWARD J. MILLS MEMORIAL FUND OF \$3,000. Given by Mrs. Howard J. Mills of Los Angeles, California, in memory of her husband.

THE ONTARIO CONGREGATIONAL CHURCH FUND, \$186.50. Given by the Ontario Congregational Church towards the endowment of a fund.

THE PAGE FUND OF \$5,000. Given by Mrs. Loraine H. Page of Pomona, California. (Three thousand dollars of this may at any time be used for other purposes.)

THE ARTHUR WARREN PHELPS MEMORIAL FUND, \$2,000. Given by Mrs. C. S. Phelps and Mr. C. A. Phelps, in memory of their son and brother.

THE LYDIA PHELPS MEMORIAL FUND, \$4,000. Given by Hiram Phelps of Ontario, California, in memory of his wife.

THE PILGRIM CHURCH OF POMONA FUND, \$1,667.44. Given by the Pilgrim Congregational Church of Pomona.

THE PILGRIM CHURCH WOMEN'S AUXILIARY FUND, \$500. Given by the Women's Auxiliary of the Pilgrim Congregational Church of Pomona.

THE JOHN D. POTTER MEMORIAL FUND, \$2,000. Given by Mrs. S. T. Potter of Westboro, Massachusetts, in memory of her husband.

THE SEARING FUND OF \$1,800. Given by Dr. Anna H. Searing of Escondido, California.

THE WALTER O. SHATTO MEMORIAL FUND, \$4,000. Given by Mrs. Clara R. Shatto in memory of her husband.

THE CLYDE H. SHIELDS MEMORIAL FUND, \$1,200. Given by P. Shields of San Diego, in memory of his oldest son, who was drowned in 1894, when about twenty-one years of age.

THE SWEET MEMORIAL FUND OF \$2,500. Given by Harlan P. Sweet in memory of his wife, C. Nell Sweet.

THE THATCHER FUND OF \$6,000. Given by Miss Susan E. Thatcher of San Diego.

THE WARDWELL FUND OF \$1,000. Given by Mrs. Maria T. Wardwell of Plymouth, Connecticut.

THE CLARA B. WATERMAN MEMORIAL FUND OF \$5,000. Given by Miss Rosa May Bennett of Los Angeles.

THE WEST FUND OF \$2,000. Given by Henry S. West of Los Angeles.

A GENERAL FUND OF \$39,090. Built up from the gifts of many friends.

SPECIAL

Four grants in aid of \$150 each are available for incoming human, men or women, who are nominated for the same by the California Scholarship Federation. The award becomes available, on the same conditions applying to regular grants, to pay the tuition of the second semester, provided the performance of the candidate during the first semester is entirely satisfactory.

Winners of scholarships on either the Storrs or the De Foundation are not also eligible for the California Scholarship Federation Grants in Aid.

"CROMBIE ALLEN SCHOLARSHIP FUND" OF \$1,000, half of income available annually to a graduate of *Chaffey Union High School* and half to a graduate of *Chaffey Junior College*, Ontario, California.

"ALICE PAUL HARWOOD SCHOLARSHIP FUND" OF \$5,000. Given to graduates of *Chaffey Union High School* of Ontario.

THE MABEL S. BRIDGES MEMORIAL FUND, \$3,500. Given by Mr. and Mrs. A. S. Bridges of San Diego, California, in memory of their daughter. Available for *women*.

"STELLA M. KING SCHOLARSHIP AND LOAN FUND FOR WOMEN" OF \$10,000.

THE FRANCIS M. PRICE FUND OF \$1,000. For *children of missionaries*.

THE MARTHA E. BERRY MEMORIAL FUND OF \$5,000. Given by Miss Elizabeth E. Berry. For *foreign* students.

LOAN FUNDS

The College also administers loan funds established by the bequest of Ellen H. Lyman and by George H. DeKay, Jr., in memory of his brother Frelin Campbell DeKay. By means of these funds, it is possible to co-operate in a moderate way, temporarily, with the pressing needs of students.

THE RAY LOAN FUND made possible by the gift of \$1,000 by Mrs. E. F. Ray provides a means of meeting situations of temporary need.

For more substantial loans over a longer period, the College administers the following funds on an interest bearing basis.

"THE CAROLINE PHELPS STOKES FUND", \$25,000. Established by the will of Olivia Eggleston Phelps Stokes in memory of her sister.

THE ETHAN ALLEN CHASE AND AUGUSTA FIELD CHASE MEMORIAL FUND OF \$5,000, for men.

THE HARMON FOUNDATION extends to four selected students financial assistance by a loan for tuition.

All applications for loans should be addressed to the Committee on Student Aid, Sumner Hall.

SELF SUPPORT

The Committee on Student Aid endeavors to find employment for students needing to earn a part of their expenses. Many are helping themselves by various forms of labor such as janitor, waiting on tables, general house work, gardening and the like. The most desirable positions are in general secured by classmates who have proven themselves good workers and students, and those coming to the College for the first time should be content if any work which they can satisfactorily do is secured for them. Students in any case should come prepared to pay all bills for at least one semester. Their record during this year will be a large factor in deciding what opportunities for help will be open to them. Applications for aid in securing employment should be addressed to the Chairman of the Committee on Student Aid, Sumner Hall.

ADMISSION

GENERAL REQUIREMENTS AND METHODS OF ADMISSION

It is the purpose of Pomona College to do a distinctly high grade of work, thus preparing its graduates for special achievement in whatever later callings they may choose. To this end graduates for admission to any class must present satisfactory evidence of their fitness for college, both in character and in scholarship. Testimonials of character and a letter of honorable dismissal from the last institution attended are required.

It is further advised that application be made as early as possible inasmuch as the College cannot under present conditions guarantee the admission of more than two hundred to the freshman class, the trustees having limited the total attendance to one hundred and fifty.

The College welcomes tentative applications from prospective students several years in advance and is glad to offer suggestions from time to time regarding the best preparation for admission. In this respect the good offices of the College are freely at the service of interested inquirers. Formal applications should be accompanied by a fee of two dollars and fifty cents. A medical examination conducted by an authorized physician, under the direction of the College, is required of all students.

An applicant for admission, immediately upon receipt of noti-

fication of acceptance, is required to make a deposit of two five dollars on the tuition of the first semester.

ADMISSION TO FRESHMAN STANDING

Applicants are admitted to freshman standing in any of three ways, as follows:

First: Certificate from approved schools or colleges.

Students from approved schools or colleges are admitted without examination on presentation of a certificate signed by principal or proper official and showing in detail the required completed courses. Certificate blanks obtained from the principal should be filled out and returned as early as possible at the completion of the high school year.

Second: Examination by the College.

Third: Certificate of the College Entrance Examination Board.

Examinations are given by the College Entrance Examination Board at certain times and places, which may be learned from Registrar or from principals of secondary schools.

ENTRANCE UNITS

Fifteen units of recommended work is the normal requirement for admission. In rare cases an applicant offering twelve recommended units, supplemented by special recommendations of principals and references and by scholastic aptitude tests of a quite indicative of ability to do college work with success, may be accepted.

A "unit" represents a course of study in one subject of high school grade involving five forty-five minute recitations per week or an equivalent for a school year. Laboratory periods shall be at least twice the length of recitation periods.

Not less than one unit in any subject is normally accepted, though a half unit may be accepted when accompanied by units for courses in allied subjects.

ENTRANCE SUBJECT REQUIRED

English, 3 units

ENTRANCE SUBJECTS RECOMMENDED

Although English is the only subject specifically required, applicants will find it to their advantage to present the following:

of the fifteen units required: at least 2 units of one foreign language; 1 unit each of history, algebra, geometry, and laboratory science; and 3 or more units of electives from the following subjects: English, foreign language, history, mathematics and laboratory science.

For advanced work in most fields, a reading knowledge of at least one modern foreign language is necessary, usually French or German. In some fields, a command of both is desirable. It is much to the advantage of the student to acquire this reading knowledge before entering college. Students who are planning to do advanced work in the Physical Sciences or in Mathematics, should well to take both Trigonometry and Solid Geometry in High School if possible.

Those who are matriculated to full standing who at the end of a semester's residence meet the requirements (see Matriculation); those who do not meet the requirements are not allowed to matriculate and are enrolled as in partial standing. No student in partial standing is recommended to college standing in another institution. The final acceptance of entrance units is based upon the character of the work done in class at Pomona College as well as upon the grade of the units presented.

Students who have sufficient credit from other institutions are admitted to advanced standing on credentials signed by the proper officials and giving full specifications concerning the nature of the courses taken and the time spent in each, together with their grade in each subject.

ADMISSION AS SPECIAL STUDENTS

Mature students, ordinarily only such as are at least twenty-one years of age, may be admitted as special students to courses for which, by ability and preparation, they may be fitted. This provision applies particularly to those equipped for advanced studies in the special departments. The privilege of classification as special student is not open to those who seek admission to College in this way as a means of avoiding compliance with the entrance or college requirements laid down for regular students. Special students are not candidates for a degree.

Credit, varying in amount with the individual courses, is granted for graduate work in approved High Schools.

PRE-REGISTRATION AND REGISTRATION

On appointed days, on or before the first Saturday in June *resident students must fill out* a schedule listing their choice of subjects for the following year.

New students prepare a program of study on announced days at the opening of each semester.

Failure to submit such a schedule at the appointed time subjects a student to a fee of two dollars (\$2.00).

Registration is completed by the payment of tuition and on one of the regularly announced days preceding the opening of the class work of each semester.

A fee of two dollars (\$2.00) is charged for failure to complete registration on the days indicated.

CHANGES IN REGISTRATION

A student has the privilege of modifying his schedule of study by addition, substitution, or discontinuance of courses with the consent of his adviser and the instructors concerned, at any time within two weeks of the beginning of class work. Thereafter the dropping of courses by a student shall entail for him a penalty of FF for the course, except as circumstances may, in the judgment of the instructor and the Classification Committee, warrant a different grade.

The fee for each change of schedule is one dollar (\$1.00). This fee is waived in the case of new students registering for the first time.

Students are admitted to those courses only for which they have formally registered.

Students are not received later than the last day set for change of schedule.

MATRICULATION

Matriculation implies the meeting of all entrance requirements and the proven ability to carry college work. To this end the standing of all new students is provisional until after they have been in residence for one semester. At that time those are matriculated who have shown themselves in accord with the spirit of the College, who have done a satisfactory quality of work during the first semester of residence and whose entrance units are acceptable.

quality of work satisfactory for matriculation has been defined by the Faculty, thus:

Matriculants must have carried the work of their first semester of residence without incurring any FF grades, and they must, Freshmen, have earned at least 24 grade points, and if Sophomores or Upperclassmen, at least twice as many grade points as the number of units for which they were registered. Students in classes carrying less than 12 units must have made twice as many grade points as the units for which they were registered." Students failing to matriculate at the end of the first semester of residence may be matriculated only after they have met all the requirements for two semesters.

Students are not candidates for a degree nor are they eligible for commendation to college standing in another institution until they have matriculated. All students must be matriculated before attaining to Junior standing.

SUPERVISION OF SCHOLARSHIP

out:

College regulates the amount of work a student may carry as follows:

For 16 units of academic work, exclusive of Physical Education (Gymnastics, Sports, Activities*) Military Drill* and Physical Education is the general registration and the maximum for Freshmen.

To register for 17 units, exclusive of work stated in the preceding paragraph, a student must have earned 16 more grade points than the total number of units for which he registered the previous semester; to register for 18 units, 24 more grade points. To register for less than 12 units of academic work requires the permission of the Classification Committee.

ly:

REPORTS ON SCHOLARSHIP

At the end of each week a report is called for from each instructor, in which he is asked to indicate such of his students as are doing good work.

At the near the middle of each semester a report is made of all

The semester hour value of each of these is as follows: Phy. Ed., 1/2; Mil. Drill, 1/2; Choir, 1.

students doing failing or unsatisfactory work for the semester preceding.

At the end of each semester a complete report is made on student. This report becomes part of the student's record and indicates the semester's standing in the courses for which he has been registered.

A student is dismissed for low scholarship on the following basis:

At the beginning of *any semester* if his total grade points equal or less than equal to the units (semester hours) for which he is registered.

At the beginning of the *third semester* of the college course if his deficiency in grade points is ten or more;

At the beginning of the *fourth semester* if his deficiency in credits is ten or more;

At the beginning of the *fifth and succeeding semesters*, if his record does not have the ratio of twice as many grade points as units (semester hours) for which he is registered.

Departure from the above procedure may be permitted in special cases by concurrent action of the Classification and College Life Committees.

Withdrawing From a Class:

Students may withdraw from classes only through authorization from the Registrar's Office. This authorization is sent to the office directly to the instructor.

Faculty Dropping Students:

A student who proves unable or unwilling to carry a course satisfactorily may be dropped from it by the College Life Committee upon the recommendation of the instructor at any time later than six weeks from the beginning of the course. The student's class card, with a grade of either FF or W for the semester and an annotation reporting the fact of his having been dropped, shall be turned in to the Registrar's Office.

Class Attendance:

Students are expected to maintain regular attendance at all class appointments in the courses for which they are registered.

Penalty for non-attendance is associated with the weekly

year, and semester scholarship records of students as determined by the individual instructor.

Instructors in "C" and "D" courses are at liberty to conduct recitations upon the basis of voluntary attendance in cases where the classes are made up wholly of upper division students; "C" and "D" courses in which other students are involved, the Classification Committee has power to extend the voluntary attendance requirement.

Attendance at classes of students who are candidates for graduation may be voluntary at the option of the instructor concerned.

Examinations:

Final examinations are required of all students in all subjects, except where exceptions are made by action of the Faculty. For extensions for candidates for the Degree with Honors, see page 50. The schedule of final examinations is prepared by the Courses of Study Committee. No changes of classes from this schedule are made without the consent of this Committee. Examinations for individual students may be given at other than scheduled times only by consent of the Classification Committee and presentation to the instructor of a Business Office receipt for a fee of two dollars (\$2.00), unless this fee is remitted by the student.

A teacher may, at his discretion, appoint a time at which an announced test missed or not passed may be made up. Before a test can be taken, a receipt from the Business Office for a payment of a fee of one dollar (\$1.00) must be presented to the instructor by the student, unless this fee is remitted by the Classification Committee.

Field Trips:

Field trips are looked upon by the faculty as a legitimate part of certain courses. Permission for such trips is secured by the instructor from the Courses of Study Committee at the opening of each semester. Instructors certify to the Registrar's Office the names of students participating in these trips.

MANUAL OF PROCEDURE IN HONORS STUDY

HISTORY

Prior to the academic year 1924-1925 Pomona College awarded honors at graduation on the basis of weighted grades. In the fall of 1924 a program of Reading for Honors in appropriate departments was added for a few students with special aptitude. The work of such students culminating in final comprehensive examinations. Beginning with the academic year 1927-1928 honors based on grades alone ceased to be given, and a special arrangement of courses and other directed study was substituted leading to the degree with honors. Beginning with September 1931, the rules and regulations set forth in this manual replaced the previous procedure with respect to candidacy for the degree with honors.

ADMINISTRATION

The administration of the routine involved in attaining the degree of Bachelor of Arts with honors is vested in a special committee of the faculty known as the Committee on Honors. This Committee alone has power to certify to the Registrar candidates for the degree with honors.

REQUIREMENTS FOR CANDIDACY

It is expected of a candidate for the degree with honors that he exercise initiative in his academic work; (b) that he devote scholarship and curricular activities consistently first among his interests; (c) that he maintain a high standard of scholarship in the division of the curriculum in which lies his field of concentration, maintaining at the same time a satisfactory record in other work; (d) that during vacations he pursue progress in reading and study; and (e) that he seek to attain a broad and thorough understanding of his field of concentration. Candidacy for the degree with honors may be continued only so long as the candidate maintains a quality of work and an attitude toward study such as will justify recommendation for the degree with honors at graduation.

REGISTRATION

I. FRESHMAN-SOPHOMORE ASSOCIATES

A Freshman or Sophomore may associate himself with the program of the College by making a declaration of intention upon his registration card. This should be duly approved by his adviser or by the head of the department in which he plans to study. Freshman and Sophomore Associates may attend the regular autumn and spring gatherings and other group meetings of students who are candidates for honors.

II. REGISTRATION FOR GENERAL HONORS

At any time between the end of sophomore year and the beginning of senior year a student may become a candidate for the degree with honors. Ordinarily there will be concentration under the sponsorship of some department or division. In some cases the Committee will accept a *special program* which cuts across departmental, or even divisional, lines.

A student desiring to become a candidate for the degree with honors should obtain an application blank from the Registrar. The application, together with a plan of study, both approved by the student's department (unless a special program is planned), must be filed with the secretary of the Committee on Honors for final registration for the semester in which the student's senior work is to begin. The application can be accepted only if the student has fulfilled his department's (or division's) requirements for candidacy. A list of these requirements can be obtained from the secretary of the Committee on Honors.

III. REGISTRATION FOR DEPARTMENTAL DISTINCTION

Each year a few students are accepted as candidates for the degree *with distinction in a particular department*. There are no requirements common to all departments, for each department sets its own standards and administers its own program subject to the general oversight of the Faculty under the terms of this manual.

IV. SEMESTER REGISTRATION

Before final registration each semester, the candidate's card must be approved (a) by his adviser, acting for the department of concentration, and (b) by the secretary of the Committee on Honors.

V. NUMBER OF CURRICULAR UNITS

A candidate for the degree with honors may graduate on basis of a registration of 12 curricular units per semester during the period he is registered as a candidate for honors.* Some departments insist upon this basis of registration; others, for some of their candidates, advise definite registration for fifteen units. A candidate who has been accepted in some field of concentration may register for a minimum of 9 curricular units with the approval of the department or the division concerned and the Committee.

In senior year a candidate for the degree with honors who has also the degree with distinction in a specific field may register for less than 9 curricular units in view of special aptitudes. A course or its equivalent is required of such a student.

VI. WITHDRAWAL

A student registered for the degree with honors may withdraw from candidacy on favorable action by the Committee, and the Committee itself may withdraw a student from candidacy, but in senior year the status of a candidate may be changed on the action of the Faculty. If, for any reason, a candidate leaves the honors status, the Committee, in consultation with the department or division concerned, certifies to the Registrar the amount to which the student is entitled for the work done under supervision.

VII. ADVISERS

Each candidate at the time of his registration for the degree with honors is assigned an adviser recommended by the department, division or other sponsoring body, and accepted by the Committee. Although a candidate proceeds on his own initiative, he confers regularly with his adviser concerning all his work, particularly that not covered by formal courses in the College. The adviser is expected to keep himself informed as to the progress of the candidate. The candidate's registration card each semester must bear the adviser's signature.

VIII. EXAMINATIONS

Prior to his senior year each candidate for the degree with honors takes final examinations in courses outside of the department of his concentration; in Senior year such examinations may be omitted at the option of the instructor. From final courses

*Exclusive of Military Drill, Choir and required courses in Physical Education.

tions in the department of his concentration he may be expended at the discretion of the department concerned.

A candidate for the degree with honors may concentrate only in the sponsorship which provides comprehensive examinations, in his senior year. The date of these examinations is determined by the sponsoring body which also sets the questions and conducts the examination, under the general supervision of the Committee on Honors. It is proposed through these examinations to take the measure of each candidate's abilities and to determine the quality and range of his scholarship and his insight as they are revealed in his grasp of the field of concentration. A copy of the paper set for each final comprehensive examination is filed with the Committee on Honors that it may review the paper and advise the examiners as to its adequacy in relation to the honors program.

A student who seeks departmental distinction takes in addition to the above comprehensives an oral examination conducted by a committee of at least three, one of whom is the candidate's adviser. The other members are appointed by the Committee in consultation with the department concerned, and one of the examiners is usually from some other institution. The purpose of the examination is to supplement the examinations previously mentioned and it is therefore expected to cover the entire scope of the candidate's field of concentration.

IX. CREDIT

At the end of a candidate's senior year the Committee, after consultation with the department or division concerned, certifies to the Registrar the credit to which the candidate is entitled for work done under its supervision.

GRADUATION

In the case of a candidate who qualifies for the degree with honors the Committee certifies to the Registrar the particular honor *cum laude*, *magna cum laude* or *summa cum laude*, to be conferred upon him.

In the case of a candidate who qualifies for the degree with departmental distinction the Committee, on the recommendation of the department concerned, certifies to the Registrar the honor of distinction in _____" (i.e. subject).

Both types of honors are announced upon the Commencement program and recorded upon the graduates' diplomas.

CURRICULUM

DEGREE OF BACHELOR OF ARTS

The courses of study offered lead to the degree of Bachelor of Arts under the following requirements:

UNIT REQUIREMENTS

One hundred and twenty-six units (semester-hours) of work are required for graduation. A "unit" consists of one recitation or lecture period, or one laboratory period a week for one semester. A recitation or lecture period covers fifty minutes; a laboratory period covers, in general, the time of three such periods. In order to complete the course in four years one must take an average of fifteen units of academic work per semester throughout the four years.

GRADE POINT REQUIREMENTS

In order to graduate a student must not only earn a certain number of units, but also attain an average of at least C grade for those units. To this end a certain number of grade points is assigned to each grade as a basis of determining average grade. The number is so adjusted that the number of credits required for graduation coincides with double the number of units.

GRADES AND GRADE POINTS

1. Grades and grade points are as follows:

<i>Grades</i>	<i>Grade Points per Unit (Semester-Hour)</i>
A	4 (excellent)
B	3 (very good)
C	2 (good)
D	1 (passing)
F	0 (failure)
FF	0 (failure)
I (Incomplete)	

W (Withdrawn with permission while work was in progress at passing grade or better)

2. The F grade and the FF grade both indicate a failure. In the case of the F grade the failure incurred may be made up upon conditions laid down by the teacher, provided the conditions are met on or before the first day after the Spring recitation, if the failure is incurred in the first semester,* or on or before the first day of recitation of the next College year, in the second semester. An F grade made up thus may not be

*F or I grades incurred during the first semester of year one may be removed on the recommendation of the teacher concerned by the successful completion of the work of the final semester.

or a D grade. An F grade not so made up remains permanently upon the records as a failure. A FF grade can be made up by taking the work over in class. Where the FF or permanent is incurred in required work, that work must be repeated when offered. A student may not continue with work in which he received a FF. The making up of work which has received the FF grade does not expunge the grade from the record. It does not credit and "grade points" for the course.

All F and FF grades reported by teachers are accompanied with specific statement in writing of the cause for the failure and graded statement in case of the F grade of the work necessary for removal. A copy of this statement is mailed to students.

The I mark is given where illness on the part of a student justifies the granting to him of additional time for the completion of work. It may be changed upon the same conditions as those set down for the making up of the F grade, with this exception, other than a D grade may be thus earned.* Teachers wishing to give an I grade for other justifiable cause than illness must receive permission to do so from the Classification Committee.

The mark W is used where a student has withdrawn from a course with the permission of the Registrar's office, provided, however, that the student was not reported as below D in the subject in the scholarship report preceding his withdrawal. If the student was reported, the grade of the report is entered upon the records and subject to the conditions stated for F and FF grades. Withdrawal from any course within a month of the examination period is not permitted save by special action of the Classification Committee, and even with that permission involves a failure in the course.

CHOICE OF SUBJECTS

In the selection of his work the student is given a large range. The only limitations are such as will insure to him, on the one hand, the breadth of view which may be gained by an introductory study of each of the great realms of knowledge; and, on the other, concentration along some chosen line of work which shall develop power of thought and an actual fund of knowledge in some particular field. To this end the following general requirements for graduation have been approved.

*Foot-note on preceding page.

GENERAL REQUIREMENTS FOR GRADUATION

I. FOR THE LOWER DIVISION

1. Four units (semester hours) of Physical Education (Activities)
Note: For two of these units work in Military Science may be substituted.
2. At least one course (two semesters) in each of five of the following divisions (I-VII), no one of the groups (A,B,C) to be passed over.

Group A.

- Division I. Art; Music (Theory and Appreciation).
- II. English; Public Address.
- III. French; Italian; Spanish; German; Greek; Latin.

Group B.

- Division IV. Biology; Botany; Zoology.
- V. Mathematics; Chemistry; Physics; Astronomy; Geology.

Group C.

- Division VI. Economics; Education; History; Political Science and Law; Sociology.
 - VII. Philosophy; Psychology; Religion.
3. Courses at student's choice in any of the above named departments, in Military Science, Hygiene (Physical Education) enough to make up a sum total of 64 units.

II. FOR THE UPPER DIVISION¹

1. Two units (semester hours) of Physical Education (Activities).
2. Sixty other units, election subject to the following principles of distribution:
 - a. Each student shall complete during each semester of Junior year at least one course (not less than 2 units) each of three of the following nine departmental groups I to VII, as above.
 - VIII, Physical Education.
 - IX, Military Science.
 - b. Each student shall complete for graduation not less than 12 hours of C and D work.

These General Requirements are designed to protect the student against gross errors in shaping his collegiate program, especially

¹Prior to graduation, all students are required by the laws of the State of California to pass a course or an examination on the Constitution of the United States. This requirement may be met by Political Science A1, B3b, C101, C104, D114, History B D119, D125.

g the Lower Division years; they intentionally leave him a deal of freedom to shape his course of study according to his est. In the exercise of this freedom it will be the part of wis- for him to take advantage of the working organization of the ular program into sequences of courses, departments and ions, looking upon these things as aids of which he, as student, yvail himself in the process of securing an education. Courses, re, however, merely aids toward, not substitutes for, reading, ion and independent study.

n the evaluation of all academic exercises the quality of English oy the student will be weighed together with the soundness and neteness of his thinking. Before any student is accepted to e division standing he must satisfy a committee of the College t ability habitually to use English of good quality. A student c: English is persistently slovenly or unacceptable may therefore thdrawn from candidacy for a degree at the next ensuing nancement if his deficiency recurs as late as the middle of his i year.

responsibility for raising the level of a student's habitual use of gh lies solely with himself, inasmuch as it is not the policy of ollege generally to undertake the teaching of basic secondary c subjects. Moreover, since no specific course or courses in gh are now required for graduation, students who have weak- en expressing themselves in their mother tongue should bear in the value of certain important courses offered by the Depart- of English.

THE PROGRAM OF STUDIES

o each student the College strongly recommends the shaping a program of studies that will mean (1) by the end of the Sopho- r year, an intelligent orientation in as many as five of the great d of learning corresponding to the "divisions" (I-VII) of the eling statement of Requirements for Graduation, and (2) dur- e Junior and Senior years, a relative concentration of effort sae one of those fields, such a concentration as is needful for ffective organization of one's Collegiate program as a whole.

CONCENTRATION IN SPECIAL FIELDS

or the guidance of the student who wishes to work out a pro- of concentration in a particular field certain principles and lds of procedure have become established:

Lower Division Preparation: There must be sufficient w Division (A and B) work in the special field and in allied d to ensure adequate preparation for carrying successfully the p Division work aimed at.

Upper Division Requirement: Not less than eighteen hours Upper Division (C and D) work in the field of concentration; these eighteen hours must be of D rank, and six of them be taken during the Senior year.

60 GENERAL REQUIREMENTS FOR GRADUATION

3. Foreign Language: For advanced work in most fields reading knowledge of at least one modern foreign language is necessary—usually French or German; in some fields a command of both is most desirable. It is very much to the advantage of student to acquire this reading knowledge before entering college.

4. Comprehensive Examination: In most divisions of the college the student's program of concentration culminates in a "comprehensive examination" covering the entire field in which concentration lies.

5. Adviser: That member of the faculty in whose field the student is working intensively becomes the student's official adviser during his Junior and Senior years. It will be well for the student to consult his prospective adviser even earlier in his course.

The application of these ideas involves to such a degree a recognition of differences between fields of learning and between individualities of students that no summary statement of them should be thought of as complete. The attention of those interested in special fields is therefore directed to the following more extended presentations of the work of the respective divisions. In addition, certain pre-professional courses are also presented as an outline for the benefit of students who look toward teaching, engineering, or medicine.

Most of the statements made in connection with concentration should be read as suggestions rather than as rigid regulations; the degree of emphasis attached to each such suggestion will be determined for the student by his adviser.

DIVISION I—FINE ARTS

(DEPARTMENTS OF ART AND MUSIC)

Courses in the history, appreciation, and theory of art and music are offered by the College as contributions to personal culture and receive credit toward the Bachelor of Arts degree on the same basis as other academic courses. In the fields of applied music and technical proficiency is aimed at, with the idea, first, of developing an appreciative taste, and second, of stimulating creative and worthy of expression.

APPLIED ART WORK: This is divided into two branches to meet the student's preference for Drawing and Painting, which look toward Fine Arts endeavors, or for Design and Crafts, which relate to Industrial Arts and the home. In recognition of the interdependence of Design and Drawing as the basis of all art training, the fundamental courses in both subjects should be pursued early in the college course. Theory courses must be included with advanced work in either branch of Applied Art study.

The student will be expected to present his work in the Departmental Exhibition at the end of each year. Upon the completion of the third year of study the student will be expected to have a separate exhibition of his work of that year.

APPLIED MUSIC: The student may take music as a subject of concentration in his course leading to the Bachelor of Arts degree. In addition to this it is possible to meet the requirements of the State Board of Education for the Special Credential in Music, which includes those recommended by the College to teach music in the public elementary and secondary schools of the State of California. The student, whether concentrating in music or working toward the Special Credential should take the beginning harmony and sight singing courses in his first year; otherwise he may have difficulty in completing the requisite courses in four years.

Each candidate for the Special Credential in Music must give a satisfactory public recital in his major subject in Applied Music. The requirements are varied according to the type of credential (General Public School Music, Voice, Piano, Organ, Violin, or Special Instruments) which is desired by the candidate. Complete information as to these requirements may be obtained from the Department of Music.

The student in applied music will be enrolled for credit toward the Bachelor of Arts degree upon the written recommendation of the Head of the Department of Music. This recommendation is based upon a system of proficiency tests given before an examining committee of the music faculty. In addition, the work in applied music must be accompanied or preceded by first year harmony or singing to receive credit. A second year or more of credit is possible when the applied music course is accompanied or preceded by second year harmony or Advanced Dictation. A minimum of two hours lessons weekly is required. Proficiency tests are required of students desiring credit toward the Bachelor of Arts degree.

SUGGESTED PROGRAM

DIVISION II—ENGLISH

(DEPARTMENTS OF ENGLISH AND PUBLIC ADDRESS)

PREREQUISITES for undertaking concentration in English in U
Division:

1. Foreign Language: High School Latin,—not less than years; a reading knowledge of French (or German).
2. Proficiency in the use of English, whether oral or written, a measurable mastery of the fundamental principles of literary criticism and interpretation.
3. An intelligent acquaintance with the books of Reading List I.

THE MEASURE OF ACHIEVEMENT set up as a standard:

1. A general knowledge of the subject *Literature*, with particular attention to major figures in the English field, as Chaucer, Spenser, Shakespeare and Milton, and a somewhat specialized knowledge of the English and American literature of the last two hundred years.
2. a. A general knowledge of English history—especially its cultural aspects.
b. A knowledge of English geography, topography, as *place* and *physical environment* in relation to literature and men and their works.
3. Some understanding of the more significant movements in the field of philosophy, especially as they apply in the realm of literature and art.
4. An intelligent acquaintance with a share of the great books of the world, particularly with those appearing in Reading Lists I and II.
5. a. An average of B or better in divisional courses of English at D rank.
b. Acceptable evidence, in the form of a paper, of achievement in the direction of one of the three: scholarship, literary research, critical literary appreciation, or independent literary creation in prose or verse,—the paper to be produced during the course of the senior year.

THE COMPREHENSIVE EXAMINATION: The success of the student in meeting the standard set up will be tested in a final Comprehensive examination at the close of the senior year.

DIVISION III—FOREIGN LANGUAGES AND LITERATURES

FRENCH, GERMAN, GREEK, ITALIAN, LATIN AND SPANISH)

CONCENTRATION IN THE DIVISION

A student interested in the synthetic study of the complete field of foreign letters may, under an adviser appointed by the division, do work in the various departments of the division, thereby concentrating in the division. Such a student should hold non-credit bearing conferences from time to time with the divisional adviser, looking toward a comprehensive examination in the general field of foreign languages and literatures.

CONCENTRATION IN DEPARTMENTS

A student planning to concentrate upon any one of the foreign languages should have begun his study of that language before entering college. Preparatory work in some other language is also to his distinct advantage.

Although the student is normally expected to concentrate in any one of the departments of Foreign Languages, he should acquire as broad an acquaintance as possible in all the other fields of literature represented in the division.

Eighteen to twenty-four hours of C and D work are required in the department concerned, in which at least a B average must be maintained. For a student desirous of doing more specialized work as far as possible under the regularly scheduled offerings, the Honors Program presents additional opportunity. At the end of the Senior year a comprehensive examination will be required.

LATIN AND GREEK

Concentration in the Classical Languages is designed to give a student a technical knowledge of the language and literature of his special interest and an appreciation of the life and institutions intimately connected with that literature.

The student of Latin is expected also to have an acquaintance with the Greek language and literature. It is not essential however to begin the lower division courses of Latin.

ROMANIC LANGUAGES AND LITERATURES

A student expecting to concentrate within the field of the Romance Languages and Literatures should be fortified with a preliminary knowledge of Latin, and will find it much to his advantage to have begun the study of French or Spanish, or both, before entering college.

Concentration in a Romanic Language and Literature is designed to provide: first, a broad general knowledge of both the language and literature of the student's special interest; and second, a considerable knowledge, represented by not less than two years of work in at least one other language of the Romance field.

A student who is well equipped in foreign language on entering college, is urged to take work in all three of the Romanic Languages.

GERMAN

Concentration in German is designed to give the student a knowledge of the language and of the German civilization as represented in the best works of literature.

DIVISION IV—BIOLOGICAL SCIENCES

(DEPARTMENTS OF BIOLOGY, BOTANY AND ZOOLOGY)

I. OPPORTUNITIES.

The location of Pomona College, close to mountain, the coastal plain and sea, makes it especially suited to studies of thematic and ecological nature. This assures also an adequate diversified supply of materials for class and laboratory and special problems of a morphological or physiological nature. College, furthermore, possesses a number of special biological lectures, notably of plants and insects. The Marine Laboratory of the College at Laguna Beach is an adjunct valuable during summer session and of use on occasion throughout the year.

II. CONCENTRATION IN THE DIVISION.

A student emphasizing biological science is ordinarily expected to have Biology A1, and Biology B2, followed by an integrated program in either Botany or Zoology or both. Those concentrating in this division are expected to participate in a non-credit bearing conference looking toward a comprehensive examination at graduation. A reading knowledge of German and French and a training in physical sciences are also expected according to the needs of the individual.

III. COURSES PREPARATORY TO:

(1). Graduate work, looking towards investigation or higher education. Broad foundations in the biological and physical sciences, with liberal selections of advanced courses in the field of concentration, are essential for those who anticipate professional work in biological science.

(2). Teaching in secondary schools. Teachers of biological subjects and general science need basic courses in as many branches of science as possible. The following are also important: Plant Physiology and Taxonomy, Human Body, Entomology, Functional Zoology, Genetics and Bionomics.

(3). Museum work, conservation, nature guide work, popular biology. In addition to the basic courses are recommended: Plant Taxonomy, Functional Zoology, Entomology, Special Problems in Geology.

(4). Horticulture, agronomy, landscape art, forestry. For the first two: Plant Physiology, Bacteriology, Entomology, General and considerable Chemistry, Elementary Physics, Structural Geology. For landscape art: Plant Taxonomy, Freehand and Mechanical Drawing, Surveying, Chemistry, Geology, and Economics. For forestry: Plant Taxonomy, Entomology, Surveying.

(5). Medicine, nursing, laboratory technique, public health and sanitation. Pre-medical requirements are discussed elsewhere. Inasmuch as medicine is highly biological, a liberal election of embryology, Histology, Neurology, Functional Zoology is recommended. Work in Entomology, Bacteriology and General Botany is recommended in addition to the above for Public Health.

DIVISION V—PHYSICAL SCIENCES

(DEPARTMENTS OF ASTRONOMY, CHEMISTRY, GEOLOGY,
MATHEMATICS AND PHYSICS)

The Division of Physical Sciences renders through its freshman and sophomore courses two quite distinct types of educational opportunity:

1 For persons who are not intimately concerned with scientific pursuits it offers a general introduction through survey courses to modern scientific method, to the philosophic aspects of science, and to the place of the sciences in the general scheme of human affairs, along with the theoretical and descriptive presentation of subject-matter. Conspicuous among such courses are: Mathematics A1, Physics A1, Chemistry A1, Astronomy B1 and Geology B1.

2 For those who incline toward more emphasis on the physical sciences during their collegiate years, whether for purposes of engineering, or with a view to engaging in commercial enterprises requiring knowledge of physical science, or because of an interest in scientific study for its own sake, the Division offers excellent opportunities for concentration.

PREREQUISITES for undertaking concentration in Physical Sciences are:

1 Physics and Chemistry: Fundamental in importance is an understanding of the constitution and value of matter and energy as is ordinarily gained through basic courses in Physics and Chemistry.

2 Mathematics: A practical knowledge of the tools of scientific reasoning acquired in Mathematics is essential. This will require mathematics courses at least through calculus. It is urged that in planning such work in college complete trigonometry in high school.

3 Foreign Languages: It is highly desirable that the student planning to concentrate in the Physical Sciences shall acquire a slight knowledge of both French and German. The more this knowledge is gained during the high school years the better.

CONCENTRATION: Each one of the departments grouped in the Division has its own sequence of courses for the student concentrating in its section of the general field; but it also requires supplementary work in related departments. In addition, there are opportunities for concentration in fields that cross departmental boundaries. The combinations and implications are too markedly individual, however, to permit of a satisfactory general statement; they must be worked out between the student and his adviser.

DIVISION VI—SOCIAL SCIENCES

(DEPARTMENTS OF ECONOMICS, EDUCATION, HISTORY,
POLITICAL SCIENCE AND LAW, AND SOCIOLOGY)

CONCENTRATION IN THE DIVISION¹: Although emphasis in the program of a student concentrating in the Division is placed on an integrated sequence of studies in one of the social sciences, it is expected that the student will obtain a broad understanding of the content and meaning of the social sciences as a whole. With this in view he will include early in his course at least three of the basic courses² in the Division. He will maintain a "B" average in the social studies, will complete 24 units in "C" and "D" courses in the Division of which at least 12 must be "D," and will complete courses D251 and D252 in the social science of his more intensive study.

FOREIGN LANGUAGE: It is recommended that every student concentrating in the Division of Social Sciences acquire a moderate knowledge of French and German. Normally by the beginning of the Junior year but not later than the middle of his Senior year the student is required to file with his Adviser a written certificate of his ability to read French or German, issued by a member of the Division who has been designated to examine in those languages.

COMPREHENSIVE EXAMINATION. The work of a candidate concentrating in social sciences culminates in a written comprehensive examination, administered by the Division. This examination consists of two parts: (1) a general examination to reveal the candidate's grasp of the broader aspects of the several social sciences, their interrelations, and (2) a more specialized examination to test his mastery of the particular social science which the candidate has studied intensively. Inasmuch as the purpose of the comprehensive examination is to appraise the candidate's integration of the entire range of social studies included in his undergraduate program, the passing of both parts of this examination will exempt the student from final examinations in social science courses at the end of his Senior year.

The following courses offered by the Department of Social Sciences are considered to be part of the work of the Division of Social Sciences:

Introduction to Education; History of Education.

SUPPLEMENTARY COURSES: In addition, the courses listed elsewhere and other courses approved by the Division, may form a part of a student's program of concentration in the Social Sciences:

Philosophy of the State; History of Philosophy; Sociology.

The attention of social science students is called to the courses available to them, offered by affiliated colleges in the Department.

¹No departmental concentration, or major, is offered in any social science.

²Economics B11, History A1, Political Science A1, Sociology 11.

DIVISION VII—PHILOSOPHY, PSYCHOLOGY AND RELIGION

SUGGESTED COURSE during the Lower Division years for those wishing to concentrate in the Division:

Freshman Year

Biology A1
Chemistry A1 or Physics A1
History A1 or Political
Science A1
English A1
Religion A1

Sophomore Year

Zoology B3 or Astronomy B1
Psychology B1
Economics B11 or Sociology
B21
Philosophy B21 or B23
Religion B

Note: A reading knowledge of French and German is ultimately necessary for persons who undertake advanced graduate work in the field of the division.

CONCENTRATION IN THE DIVISION requires:

1. The completion of the following basic courses:
Philosophy C125 or C127;
Psychology B1;
Religion C109.
2. The completion of forty units in the division; eighteen of these shall be taken in one of the departments of the division; six of them shall be of D rank.
3. The maintenance of a grade of B or better in divisional courses.
4. The passing of a comprehensive examination covering the entire field of concentration at the close of the senior year.

A SUGGESTED PRE-ENGINEERING COURSE

In the belief that the training of a liberal arts college, so essential to men in other professions, is essential to the engineer, Pomona has developed a series of courses to enable its graduates to enter the upper division work of engineering schools and to graduate therefrom in two years. Men during the first two years will take the same course regardless of the field of engineering contemplated.

FRESHMAN YEAR

Chemistry B3 or A1 and B2.....	5
Mathematics A1	3
Mathematics A7 (Engineering Drawing).....	4
Foreign Language	5
Elective	10

SOPHOMORE YEAR

Economics B11	6
Mathematics B15	5
Mathematics B9 (Engineering Drawing).....	4
Physics B2 and B4.....	0
Foreign Language	5

JUNIOR YEAR

Chemistry B6 ^{1 2 3}	3
Mathematics D120 ^{1 2 3}	3
Astronomy or Geology ¹	6
Economics ¹	5
Physics C111 and D109 ^{2 3}	0
Electives	40

SENIOR YEAR

Mathematics D121 ^{1 2 3}	6
Physics D220 ³	5
Physics D113 ^{1 2 3} (Analytic Mechanics).....	5
Electives	4

In addition the six weeks' summer course in surveying at Lake should be taken by all.

¹To be taken by civil, structural and hydraulic engineers.

²To be taken by aeronautical and mechanical engineers.

³To be taken by electrical engineers.

A SUGGESTED PRE-MEDICAL COURSE

certain subjects have been designated by the Council on Medical Education of the American Medical Association as unconditional requirements for entrance to Class A medical colleges. Many of the leading medical colleges, however, have requirements well beyond the minimum. Pre-medical students are advised not to attempt to divide the minimum requirements into two years of college work, but to build, in more leisurely fashion, a broad educational foundation. The outline below indicates a curriculum which meets the requirements for graduation from Pomona College, and, it is believed, the entrance requirements of all medical colleges in the United States.

Freshman Year		Junior Year	
	Units	Chemistry, Organic (C110).....	8
High (A1)	8	Physics (B2, B4).....	8
Chemistry, General (B3 or B2)	6 or 8	Zoology (D113, D114 or C117)	6
Mathematics A1	6	Electives from Divisions other than IV and V.....	4 or 6
German or French.....	6	Free elective	6 or 4
Electives	6 or 4		
Sophomore Year		Senior Year	
	Units	All elective. A major in either Chemistry or Zoology may be completed. Subjects especially recommended are Philosophy, Sociology, Economics, Language and Literature, and Psychology.	
Chemistry, Analytical (B6, B7)	6		
Biology, Biology (B2).....	8		
Zoology	6		
German or French	6		
Mathematics or free elective.....	6		

Reading knowledge of both German and French is highly desirable. If one has been taken in High School, it is recommended that the other be taken in college. High School work in Latin, as well as French and German, is recommended for those planning the pre-medical course. High School trigonometry, physics and chemistry are also recommended. For one wishing to concentrate on the natural phases of the medical sciences, mathematics through calculus should be taken in college. Some of the medical schools are requiring physical chemistry in their curricula. Breadth of view, initiative, and a thorough grounding in the biological and physico-chemical sciences are the objectives of the pre-medical course.

Pre-medical students who have not had trigonometry in High School are definitely required to take Mathematics A1a as a prerequisite for Physics B2. It is recommended that all take the year's work in Mathematics A1.

A SUGGESTED COURSE FOR PROSPECTIVE TEACHERS

The courses in Education in Pomona College are designed to supply the information each intelligent citizen should have concerning one of the most important of our social institutions; they also to the prospective teacher a certain amount of pre-professional training.

CERTIFICATES: In California every teacher must have a certificate. The certificate is issued by the county in which the teacher is employed upon presentation to the county board of education of a qualifying credential issued by the State Board of Education through the Commission on Credentials. The Commission issues the credential to the candidate upon the basis of evidence furnished by the candidate's college that he has completed the requirements laid down by the state. Requirements vary for different certificates and those who contemplate entering the teaching profession should make themselves familiar with these requirements as indicated in the bulletins of the State Board of Education which may be had by application to the State Board in Sacramento.

The more technical professional requirements are not fully met by courses offered in Pomona College and will need to be completed by courses taken in Claremont Colleges or elsewhere. Pomona College, however, does undertake to offer the prospective teacher the opportunity of becoming thoroughly acquainted with the fundamental concepts of education as a social institution and of laying a broad foundation upon which future technical training may be profitably built.

A SUGGESTED PROGRAM for the prospective teacher:

Freshman year: Academic courses preparatory to the credential in view.

Sophomore year: Education B3; Psychology B1; further work in the subject-matter to be taught.

Junior year: Education C104; Psychology C107¹; further work in the subject-matter to be taught, or in related fields.

Senior year: A selection from Education D215; Education D217. A rounding out of the subject-matter to be taught.

¹These courses count technically as Education in all matters involving credentials.

A SUGGESTED COURSE FOR PROSPECTIVE TEACHERS OF PHYSICAL EDUCATION

Freshman Year		Sophomore Year	
	Units		Units
sh A1	8	Zoology B3	6
istry B3	6	Sociology B21	6
gy A1	6	Psychology B1	3
ene A5	2	Music B3	6
ves from divisions		Electives	9 or 10
I, VI, or VII.....	8 or 9		
Junior Year		Senior Year	
Address B32.....	4		
ology C107	3		
gy C105	3		
ical Education C130..	3	Physical Education C126..	2
ical Education C127,		Education D215	3
8	4	Physical Education D133..	3
ical Education C119		Physical Education D131..	3
r women)	2	Electives	12
tion B3	3		
ves in divisions			
er than VI or VII...	8 or 9		

units of required Physical Education Activities.

suggested program followed by a year of graduate work in Clare-
Colleges will qualify the student for the general credential with
for in physical education.

ding knowledge of French and German is highly desirable for
students who plan to go on to graduate research in Physical
Education.

COURSES OF INSTRUCTION

DESIGNATION OF COURSES

The letter preceding the number in the designation of a course indicates in general its grade. Elementary courses, designated A (as English A1) are given in Freshman or Sophomore year. Courses are either those which follow the A course of earlier year or the more advanced beginning courses; C and D Courses are advanced courses given to Juniors and Seniors, D courses being more difficult. The natural sequence of courses is from A to B, B to C, and C to D, and a student may not enter a C or D course without previous work in the same line.

Courses with numbers below 100 are underclass courses; those numbered from 100 to 199 are for Juniors and Seniors; those numbered over 200 are not open to students of less than Senior standing.

Any course may be withdrawn if the enrolment is less than five.

In departments where one-unit courses are offered, two such courses should be completed to secure the counting of units toward grade-points toward graduation.

When courses in different semesters have the same general number and are connected by a hyphen thus, Bla-B1b, they cover a common subject and the entire sequence should be taken. If, however, they are connected by a comma, thus, Bla, B1b, although the course extends throughout the year, independent credit is given for the work of the first semester and the first course may be followed by some allied subject instead of the next course in the sequence. Entrance to the second semester course is by permission of the instructor.

All courses are three units each unless otherwise designated.

Roman numerals show the periods of recitations. Two courses with the same Roman numerals cannot be taken contemporaneously unless the numerals are preceded by different letters (as *M* or *N*) showing that the classes meet on different days of the group.

	8:00	9:00	10:00	11:00	1:15	2:15
<i>MWF</i>	<i>I</i>	<i>III</i>	<i>V</i>	<i>VII</i>	<i>IX</i>	<i>XI</i>
	8:00	9:00	10:30		1:15	2:15
<i>TThS</i>	<i>II</i>	<i>IV</i>	<i>VI</i>		<i>X</i>	<i>XII</i>

Hours to be arranged—*A*.

If a letter precedes the numeral, the class meets only on that day of the group.

ART

fee of \$5 is charged for each unit of credit except in course

A1b. Design.

MR. BEGGS

study of the elements of design in primitive art and historic ornament, and their application to various types of original commercial designs. 2 units. Class *MW, V*; laboratory, *M, 1:15 to 4:05* or *A*.

A2b. Drawing.

MR. BEGGS

study of the theory of perspective with practice in out-door sketching. Still-life in pencil and work in pen-and-ink and color are included. 2 units. Class, *TTh, X*; laboratory, *TTh, XII, IV* or *A*.

-B11b. Advanced Drawing.

MR. BEGGS

In the first semester, cast drawing in charcoal followed by portrait drawing from the model in the same medium. In the second, pictorial composition considered in relation to commercial design and illustration in charcoal, pen-and-ink, color. 2 units. Class, *WF, IX*; laboratory, *WF, XI* and *XIII*.

. History of Art.MR. BEGGS, MR. KUHN, MR. ROBBINS
and Others

study of the historical development of art with especial attention to national genius and expression. First semester. *III*.

1a-C120b. Painting.

MR. BEGGS

Practice in Still-life and Landscape is adapted to a study of the techniques of various historic schools of oil painting. These are explained by means of a system of set palettes which afford an understanding of painting principles and an opportunity for the development of individuality of manner. 2 units. Class, *WF, III*; laboratory, *WF, IX* and *XI*.

1a-D205b. Advanced Painting.

MR. BEGGS

Attention is given to the completion of easel pictures including the portrait and the decorative composition. A large finished canvas is required in the second semester. 2 units. Class *TTh, IV*; laboratory. *TTh, X, XII*.

ASTRONOMY

B1b. General Astronomy

MR. WHITNEY

non-mathematical course dealing with the general facts of as-

In addition to the courses listed below there will be announced at the time of registration certain courses in Scripps College open for non-students under approved conditions.

tronomy, including regular observations at the Observatory; designed for students who have only elementary preparation in physics or chemistry and mathematics. Classroom, two hours a week; lecture and observatory amounting to one period a week. Laboratory fee, \$3.00 each semester. *VII.*

C101-C102. Astronomy and Cosmogony

MR. WHITNEY

A course in the essentials of the subject, designed for students who have a working knowledge of analytic geometry and calculus and of the more important principles of physical science including, in the second semester, a study of recent theories of cosmogony as compared with historical hypotheses. (*Omitted in 1932-1933*).

C103a-C103b. The Sun and Other Galactic Stars.

MR. WHITNEY

A systematic study of the sun and its observable phenomena, including sunspots, prominences and various forms of radiation. The results of recent and contemporaneous work are integrated with the student's own observations with the horizontal telescope, pyrheliometer, spectrograph and spectrohelioscope. Observational study begun in the first semester continues throughout the year. At the same time systematic observation of certain variable and binary stars is carried on, with construction of light curves and discussion of their classification and origin.

The year course constitutes a comparative study of our sun and its relation to other stars of the universe. Laboratory fee, \$5.00 each semester. *A.*

D104. Theoretical and Practical Astronomy, A. MR. WHITNEY

Some phase of theoretical and practical astronomy, such as the determination of time, latitude, and longitude, with their applications to marine and aerial navigation. Classroom, one hour a week; observatory work amounting to two hours a week. First semester. Laboratory fee, \$5.00. *A.*

D105. Theoretical and Practical Astronomy, B. MR. WHITNEY

A short course in Celestial Mechanics or the application of the principles of mechanics to the motions of the heavenly bodies with problems in the computation of orbits or the determination of the circumstances of eclipses. Elements of differential and integral calculus required. Second semester. *A.*

D106a-D106b. Astrophysics.

MR. WHITNEY

(*Omitted in 1932-1933*).

D230. Investigations in Astronomy

MR. WHITNEY

Investigation in a particular field such as variable stars or solar physics, or in some phase of astrophysics. Each semester. *1*

units. May be repeated for credit. Laboratory fee, \$5.00 each semester. *A*.

BIOLOGY

-A1b. General Biology.

MR. HILTON, MR. MUNZ and ASSISTANTS

A general course either for those who intend to take further work in biology or for those who wish but one year. It may be taken for credit by those who have high school biology, botany, or zoology. It will consider material, methods, and fundamental principles in the whole field of biology by means of class, demonstration, laboratory, and field work. By means of the project method it will be fitted to the preparations, needs, and interests of individuals or groups. Class, *MW, VII*; laboratory, field trip, or demonstration *T,Th* or *F, 1:15-4:10*. Laboratory fee, \$6.00 each semester.

B2b. Advanced Biology.

MR. HILTON and MR. MUNZ

General Zoology first semester. General Botany second semester. A general survey of the animal and plant kingdoms, dealing with classification, structure and life-processes of both groups. Prerequisite: Biology A1 or its equivalent. Ordinarily this course is prerequisite for advanced work in the division. 4 units. Class, *TTh, II*; laboratory, *TTh, 1:15-4:10*. Laboratory fee \$8.00 each semester.

5. Bacteriology.

MR. MUNZ

General study of important bacteria, methods of culture and study, and importance in disease and agriculture. Prerequisite: one year of biological work. First semester. Class, *S, II*; laboratory, *WF, 1:15-4:10*. Laboratory fee, \$8.00. Breakage deposit, \$5.00.

7. Genetics.

MR. MUNZ

A non-laboratory course covering modern developments in the study of heredity and evolution and their general application to plant and animal breeding and to eugenics and race questions. Class work will be accompanied by demonstrations, problems and discussions. Prerequisite: one year of biological work. First semester, *I*. Fee, \$3.00.

8. Bionomics.

MR. HILTON

A course in the history of biological progress, including modern problems in evolution, heredity and eugenics. It is open to Juniors or Seniors who have had a year of biological work. May be taken with Zoology D131 for three hours. Second semester. 2 units. *MW, I*.

BOTANY

C123. Plant Physiology.

MR. MUN

A study of the physics and chemistry of plant-life, discussing the nutrition, life-processes, absorption, conduction, transpiration, photosynthesis, respiration, growth, etc. Important for those students contemplating horticultural work, teaching of biology, and for botany majors. Prerequisite: Biology B2. First semester. *A.* Two class periods and one laboratory. Laboratory fee, \$8.00. Breakage deposit, \$5.00. Alternates with Biology C107.

D125a, D125b. Taxonomy.

MR. MUN

Study of our local flora and more common cultivated ornamentals. Principles and methods of classification and taxonomic work. Much field work with trips to desert, mountain and shore for study of plants in their native conditions. Prerequisite: Biology B2b. First semester, Class, *WF, III*; laboratory, *M, 1:15-4:10*. Second semester, Class, *F, III*; laboratory, *MW, 1:15-4:10*. Laboratory fee, \$7.00 each semester. Alternates with D127. (*Omitted in 1932-1933*).

D127a, D127b. Anatomy and Comparative Morphology of Green Plants.

MR. MUN

The anatomy with special reference to vascular tissues from the evolutionary point of view. Morphology covering life-histories, evolutionary series, and relationships of groups of green plants from algae to seed plants. Prerequisite: Biology B2b. Class, *A.*, laboratory, *M, 1:15-4:10*. Laboratory fee, \$7.00 each semester. Alternates with D125.

D131. Botanical Problems.

MR. MUN

Special work, largely individual, and primarily for majors in the department. Each semester. 1 to 3 units. May be repeated for credit. Permission of instructor necessary for registration. *A.* Laboratory fee, \$2.00 per unit of credit.

ZOOLOGY

B3a-B3b. The Human Body.

MR. GILCHRIST

A course in the structure and function of the human body. Students may enter the course either semester, but must attend both semesters for credit. Class periods, *MF, I*; laboratory, *Th, 1:15-4:10*. Laboratory fee, \$6.00 each semester.

C105. Anatomy.

MR. GILCHRIST

(*Omitted in 1932-1933*.)

C110a, C110b. Functional Zoology.

MR. GILCHRIST

A study of living animals. The first semester deals with General and Comparative Physiology; the second semester considers

problems of Experimental Zoology, such as heredity, development, regeneration of form. Prerequisite: College Biology or Zoology. *VII*.

7. Embryology.

MR. GILCHRIST

A study of maturation, fertilization, early development, and the formation of organs, with especial reference to vertebrates. Prerequisite: Biology B2 or Zoology B3. Second semester. Four units. Class, *TTh, II*; laboratory, *W, 1:15-4:10* and three hours to be arranged. Laboratory fee, \$8.00.

8. Entomology.

MR. HILTON

A general course in the structure and classification of insects. Each student makes his own collection for identification and study. prerequisite: Biology B2. Second semester. *A*. Laboratory fee, \$6.00.

9. Histology.

MR. HILTON

The microscopic anatomy of the tissues and organs especially of vertebrates. Some attention is given to methods. Prerequisite: Zoology B3 or Biology B2. First semester. Class, *T, IV*. Laboratory by appointment. One class, two laboratory periods. Laboratory fee, \$8.00.

10. Neurology.

MR. HILTON

A general consideration of the structure and functions of the nervous system and sense organs chiefly of vertebrates. Prerequisite: Zoology D113. Second semester. Class *T, IV*. Laboratory by appointment. One class, two laboratory periods. Laboratory fee, \$6.00.

11. Zoological Literature.

MR. HILTON

Reviews of important contributions in all fields of recent Zoological literature. Open to Juniors and Seniors. Second semester. May be repeated for credit. 1 unit. *F, I*.

12. Zoological Problems.

MR. HILTON and MR. GILCHRIST

This course is for undergraduates who are prepared to undertake special work in general Zoology, Physiology, Entomology, Anatomy or Embryology. Such problems may be with local insects or other animals or they may be of a general nature dealing with life functions and structures. Either semester. 2 to 3 units. *A*. May be repeated for credit. Laboratory fee, \$2.00 per unit.

CHEMISTRY

The two introductory courses, A1 and B3, cannot both be taken for credit. Students who wish to get a "working knowledge" of chemistry, as a part of their training in some field of science, should register for the B3 course. The A1 course is intended primarily for those whose major interest is not scientific.

A1a, A1b. A Survey of Chemical Science.

MR. ROBINSON

Presents our present-day concepts of the nature of matter and its behavior, the origin of these concepts, and the place of chemistry in human affairs. No laboratory is required, Chemistry B2 may be elected to accompany this course. Fee, \$2.00 each semester to defray expenses of lecture demonstrations.

B2a, B2b. Experimental Inorganic Chemistry.

MISS O'NEILL

To accompany or to follow Chemistry A1. Laboratory work similar to that of B3, with assigned problems and studies. This course, with A1, may serve in place of B3 as preparation for advanced courses. Each semester, one unit; or the entire course (B2) may be taken in one semester, 2 units. Laboratory, *WF*, 1:15-4:10. Laboratory fee, \$6.00 each semester or \$10.00.

B3a-B3b. Inorganic and Elementary Theoretical Chemistry.

MR. ROBINSON and MISS O'NEILL

A foundation course for those who are planning further work in chemistry or other scientific fields. Those who have not had entrance chemistry should consult the instructors before registering. Class, *TTh*, *IV*; laboratory, *T* or *Th*, 1:15-4:10. Laboratory fee, \$6.00 each semester.

B6a, B6b. Analytical Chemistry.

MR. LEIGHTON

Studies in the principles of chemical behavior and in stoichiometric problems. Laboratory practice in systematic qualitative analysis of anions and cations, and in the simpler volumetric and gravimetric methods of analysis. Prerequisite: Chemistry B3, or A1 and B2. Class, *S*, *II*; laboratory, *WF*, 1:15-4:10. Laboratory fee, \$10.00 each semester.

C110a, C110b. Organic Chemistry.

MR. ROBINSON

A survey of the principal classes of carbon compounds and their characteristics, studies in synthetic methods and problems of structure and applied organic chemistry. Prerequisite: Chemistry B3, or A1 and B2. 4 units. Class, *VII*; laboratory, *T* or *Th*, 1:15-4:10. Laboratory fee, \$6.00 each semester.

C111. Advanced Quantitative Analysis.

MR. LEIGHTON

A continuation of B6, designed to give the student a more comprehensive knowledge of the theory and practice of volumetric and gravimetric analysis. Either semester. Class, *Th*, *II*; laboratory, *WF*, 1:15-4:10. Laboratory fee, \$10.00.

C114a-C114b. Nutrition and Foods.

MISS O'NEILL

A survey of the methods used and the results obtained in investigations of dietetic requirements, and of the nutritive value of foods.

f foods. No prerequisites. There will be no formal laboratory periods, but students will undertake projects of fact-finding or experimental character. 2 units. *TTh, II*.

5a, D115b. Biological Chemistry.

MISS OTIS

lectures and reports, and qualitative and quantitative experiments on the chemistry of materials and life-processes of organisms. The fundamental principles of human nutrition are included. Prerequisite: Chemistry B6 and C110, or consent of instructor. Class, *WF, III*; laboratory, *F, 1:15-4:10*. Laboratory fee, \$6.00 each semester.

9a, D119b. Physical Chemistry.

MR. LEIGHTON

a general review of the fundamental physico-chemical concepts and principles, with numerous illustrative problems, laboratory practise in physico-chemical measurements. Prerequisite: C course in either chemistry or physics, and differential and integral calculus. Class, *MW, I*; laboratory, *M, 1:15-4:10*. Laboratory fee, \$8.00 each semester.

1a, D121b. Chemistry Conference.

THE STAFF

oral or written reports by students, on material found in current chemical literature; discussions of research methods, the trend of present-day research, and recent developments in theoretical and applied chemistry. Each semester. One unit. *A*. May be repeated for credit.

1a, D151b. Methods in Chemistry.

THE STAFF

properly qualified seniors (juniors may be sufficiently advanced in exceptional cases) may elect a laboratory course in special analytical methods, physical chemistry, organic syntheses, or biological chemistry, under the direction of the appropriate instructor. Library reference work is an essential part of such courses, and written reports are required. Prerequisites: Chemistry B6, C110 and consent of instructor. 2 or 3 units. *A*. Each semester. May be repeated for credit. Laboratory fee, \$5.00 per unit.

1a, D201b. Research in Chemistry.

THE STAFF

senior students registered in honors, or other seniors of exceptional initiative, may undertake the investigation of problems suited to their experience, in physical, analytical, organic or biological chemistry, under the direction of the appropriate instructor. A thesis and an oral examination are required. 2-6 units. *A*. Each semester. May be repeated for credit. Laboratory fee, \$3.00 per unit.

COURSES OF INSTRUCTION

CLASSICS

GREEK

B1a-B1b. Elementary.

MR. ROBB

First lessons; relation to modern Greek and to English scientific vocabulary; selected short passages from Greek literature. Book I of Homer's *Illiad*. *II. (Omitted in 1932-1933).*

C101a, C101b. Selections from Greek Literature.

MR. ROBB

Two sequences of readings are offered in alternate years: a, Herodotus, Plato, Homer, Greek comedy and tragedy, the New Testament. Studies in morphology and syntax are regular features of the work. The course may be repeated for credit in successive years. *IX.*

LATIN

A1a-A1b. Elementary.

MR. ROBB

An introductory course in the rudiments of the Latin language with emphasis upon the relation of Latin to English and to the Romanic languages. *VII.*

B3a-B3b. Cicero, Pliny and Horace.

MR. ROBB

Cicero, *De Senectute*; Pliny, *Selected Letters*; study of the life and times of the late Roman republic and early empire. Horace, *Odes and Epodes*; philosophy, history and mythology as reflected in the poems of Horace; study of the metrics of Horace and the influence of the Greek lyric poets. *VI.*

C105a-C105b. Composition.

MR. ROBB

Review of Latin grammar; translation of sentences and connected discourse into Latin according to the needs of the class; lectures on word-formation and syntax. This course may be re-elected with credit and is required of students majoring in Latin. *A. One unit.*

C107a, C107b. Roman Comedy and Elegy.

MR. ROBB

Selected plays from Plautus and Terence. Origin and development of the elegy with emphasis upon the poems of Catullus, Tibullus, Propertius and Ovid. *III. (Omitted in 1932-1933).*

D109a, D109b. Roman History and Biography.

MR. ROBB

Two sequences of readings are offered in alternate years: a, Roman philosophy, satire, and pastoral poetry; b, Roman historical and political antiquities. The course may be repeated for credit in successive years. In 1932-1933, sequence a. *IV.*

ECONOMICS

A5b. Accounting.

MR. DE RYCKE

study in theory and method, developing from the balance sheet the fundamental principles underlying alike the construction and interpretation of financial records. *MF, VII, and T or I, 1:15-4:05.*

B11b. Principles of Economics.

MR. DUNCAN

the basic course in the general principles of Economics. Required for students expecting to emphasize the study of Economics, and prerequisite for upper division courses in Economics. Economics A5 not prerequisite for Economics B11. Two sections. *I, III.*

C. Money and Banking.

MR. DE RYCKE

principles of money, credit, and banking interpreted in the light of the institutions and financial organization designed to supply society with adequate media of exchange. First semester. *VI.*

D. Public Finance.

MR. DUNCAN

public expenditures, public revenues, public debt, and financial administration, with special attention to the theory and practice of taxation. Second semester. *IV.*

E. Agricultural Economics.

MR. G. S. BURGESS

study of the application of economic principles to certain problems of agriculture, such as land tenure, transport, labor, marketing and prices. First semester, *III.*

F. Economics of Transportation Problems.

MR. DE RYCKE

a historical and analytical study of transportation principles and problems, with particular reference to railway transportation in the United States. Second semester. *VI.* Offered in alternate years. (*Omitted in 1932-1933.*)

G. Corporation Finance.

MR. DUNCAN

principles underlying the promotion, financial structure and control, failure and reorganization of corporate enterprise, including some study of cooperative organizations. Prerequisite: Economics A5, or equivalent. First semester. *IV.*

H. Public Utility Economics.

MR. DE RYCKE

a historical and analytical study of public utility problems in the United States. Particular emphasis is laid upon the economics of overhead costs, the role of competition, regulation and valuation. Second semester. *VI.* Offered in alternate years.

D111. Investments.**MR. DE RYO**

A study of investment and investment credit, and of the institutions utilized to facilitate the transfer of savings to permanent employment as capital. Together with C105 this course is designed to afford a view of the financial organization of society. Prerequisite: Economics C110. Economics C105 recommended. Second semester. *V*.

D115. Principles of International Trade.**MR. DE RYO**

Principles and structure underlying international economic relations. Prerequisite: Economics C105. First semester. *V*.

D117. Economic Problems of the Orient.**MR. DUNCAN**

A study of the economic, social and political problems of the Far East with special reference to current conditions in China. Enrolment restricted to those expecting to concentrate in Social Science and to others by special consent of instructor. First semester. *VII*.

D119. Monopolies and Trusts.**MR. G. S. BURTON**

A study of the economic principles and the legal status of monopolies. Second semester. *III*.

D252. Economic Theory.**MR. DUNCAN**

The special topics studied vary from year to year, and will include critical analysis of underlying economic theory and its development. The course aims to synthesize the student's work in Economics and culminates in the comprehensive examination required for those whose field of intensive study is Economics. Second semester. 3 units. *A*.

EDUCATION**B3. Introduction to Education.****MR. PATTERSON**

A course designed for those who desire an understanding of the American school system. The outstanding problems of present day education are examined and certain approaches to a solution of these problems are discussed. This course or equivalent prerequisite for Education C104, D215, D217. First semester. Second semester. *IV*.

C104. History of Education.**MR. NICHOLS**

The development of educational theory and practice from the Greek period to the present. First semester. *VII*.

D210. Practice Teaching in Music and Physical Education.**MR. ALLEN and Others**

Exercises in actual teaching under direction, regular conferences with the supervisor being a feature of the work. The course is open to those completing credential requirements during the current year. 4 units. Each semester. *A*.

5. Principles of Secondary Education. MR. DOUGLASS
The factors and principles which underlie the theory and practice of secondary education, including the junior high school, the senior high school and the junior college. Second semester. *VI.*

7. Problems of Education. MR. DOUGLASS
The stress is placed upon current educational questions and literature. Students may consider individual problems, 2 or 3 units. Second semester. *A. (Omitted in 1932-1933).*

ENGLISH

Writing and Speech are emphasized features of all Lower Division courses. Persons who have in mind to concentrate in English should complete Reading List I before the beginning of the Junior year.

A1b. English: An Introductory Course.

THE DEPARTMENTAL STAFF
The fundamental principles of literary criticism and interpretation together with reading and study of specimens of the more important literary types; instruction and practice in writing and speech. 4 units. Prerequisite for all other departmental courses. Men: *WF, I*; section meetings at *II*. Women: *TTh*, section meetings at *I*.

Shakespeare. MR. FRAMPTON
A general course, including some consideration of Shakespeare's life and the conditions under which he lived and wrote, the chief stress falling, however, on a study of the greater plays with a view to enabling the student to read Shakespeare with sympathetic appreciation. Second semester. *V.*

B5b. Nineteenth Century Literature. MR. HOWARD
Wide reading in the literature of the period, in poetry and essays especially, with lectures on its significance as an expression and interpretation of general English life. Registration limited to twenty-five persons. *III.*

B9b. Types of Prose Fiction. MR. HARRIS
Studies in various phases, as tale, romance, novel and short-story, through which fiction writing has passed from medieval times to our own. Offered to men and women in alternation; 1932-1933 registration is limited to twenty-five men. *VI.*

Character Presentation in Dramatic Literature.

MISS PRINCEHOUSE
The theory and technique of character presentation as found in selected plays. The course looks toward character-interpretation through the actor's art. Permission of the instructor must be secured before registration for this course. Each semester.

B15a, B15b. American Literature.

MR. LINCOLN

The literature of the United States, with emphasis on its expression of our national characteristics and sentiments. Offered to men and women in alternation; in 1932-1933 registration is limited to women. *IV*.

B21a, B21b. English Composition.

MR. FRAMPTON and MR. HOWARD

The fundamentals of effective expression in writing, with opportunity for practice in such special forms as the short story and the essay. *IV*.

ADVANCED COURSES

A substantial acquaintance with the books of Reading List is most desirable as a preliminary to registration in University Division courses.

C101a, C101b. The Renaissance in England—from Chaucer to Milton.

MR. DAVIS and MR. HOWARD

The first half of the course will be devoted to Chaucer, his contemporaries and his imitators; the second, to the later in dramatic writers of the Renaissance movement in England. Spenser, Bacon and Milton being main figures. *V*.

C103a, C103b. Literature of the Eighteenth Century.

MR. DAVIS

The neo-classical literature of Dryden, Pope and their contemporaries; the periodical essayists; sentimentalism, realism and romanticism; the eighteenth century drama; the beginning of the English novel; the spread of the romantic movement in England and on the Continent. Registration limited to twenty; the permission of the instructor being prerequisite. *III*.

C108. Contemporary Poetry.

MR. LINCOLN

A course in the forms and content of contemporary poetry with directed practice in the writing of verse. Second semester. *V*.

C111. The Short Story.

MR. FRAMPTON

Practice in supervised writing of short-stories. Study of contemporary short-stories. First semester. *V*.

C112. The Essay.

MR. HARRIS

A writing course with some study of recent essay literature. Second semester. *V*.

C117a, C117b. History of English Drama to 1642.

MR. FRAMPTON

Lectures and readings tracing the historical development of English drama from its beginning to its flowering in the work of Shakespeare and his contemporaries; thence through its decline to the closing of the theatres. *VII*.

5a, D125b. Shakespeare. MR. LINCOLN and MR. MC CULLEY
 A study of Shakespeare's complete works. *V*. (*Omitted in 1932-1933*).

7. Literary Criticism. MR. FRAMPTON
 An examination of the bases of literary criticism; studies of outstanding modern critics; frequent practice in supervised critical writing. Second semester. *I*.

1a, D201b. The Great Victorians and their Successors.

MR. MC CULLEY and MR. HOWARD

First semester: The England of 1832-1882 studied in comparison with contemporary America and continental Europe; the Victorian spirit and point of view as expressed by its "major prophets"; the reactions that heralded the present-day temper and outlook. Second semester: A continuation of the comparative study, the main emphasis falling, however, on recent American developments. (*D201a will be omitted in 1932-1933*). First semester *IV*.

3a, D203b. Creative Writing.

MR. LINCOLN and MR. FRAMPTON

Supervised practice in all forms of creative writing. Study of matters and fields of literary interest. *T, X and XII, and F, IX*.

7a, D207b. The English Language. MR. STRATHMANN

Old English grammar with selected readings, followed in the second semester by a study of the language in its later developments with a view to an understanding of present-day English usage. *VII*.

5a, D215b. The Development of English Literature.

THE DEPARTMENTAL STAFF

Lectures, reading, papers and oral reports directed toward a synthesis on the student's part of his work in the field of literature and allied subjects; the course culminates in the comprehensive final examination required of persons concentrating in English. Prerequisite: English C103 (a grade of B or better) or an equivalent. Registration for the second semester is conditioned upon a grade of B or better in the first. *M, XI, and W, I and XIII*.

FRENCH

1-A1b. Elementary. MR. JONES and MRS. BISSIRI

Stress laid on accurate pronunciation, essentials of grammar, translation of French prose; dictation, conversation and easy composition. *IV, VI, VII*.

B3a-B3b. XIX Century Novel. MRS. BISSIRI and MISS HUSS
Continuation of the grammar. Readings from nineteenth century novelists; selections from Chateaubriand, Hugo, Balzac, and others. *II, III, VII.*

B4a-B4b. Composition and Conversation. MRS. BISSIRI
An intensive study of grammar with emphasis on idiomatic French, original compositions, conversation, reading of contemporary French. Class conducted largely in French. Prerequisite: French A1 or equivalent. 2 units. *WF, IX.*

C105. Classic Drama. MRS. BISSIRI
A study of typical plays by Corneille, Racine and Molière, with collateral reports in French. Lectures in French. Prerequisite: French B3 or equivalent. First semester. *V.*

C106. Seventeenth Century Prose. MRS. BISSIRI
Study of Boileau, La Fontaine, La Bruyère, Descartes, Pascal, Bossuet, Fénelon, Mmes. de Sévigné, La Fayette and Montesquieu; lectures and collateral study in French upon the reign of Louis XIV. This and all following courses conducted in French. Second semester. *V.*

C107a-C107b. Advanced French Conversation. MRS. BISSIRI
Practical course in French conversation based on modern colloquial usages. Prerequisite: French B3 and B4 or equivalent. 1 unit. *T or Th, X.*

D109. Literature of the Eighteenth Century. MR. JOHNSON
A critical study of the French philosophers of the eighteenth century, with especial attention to Montesquieu, Voltaire and J. J. Rousseau. Collateral readings and reports by members of the class. Prerequisite: French C105 and C106. Required for French major unless D111 is taken. First semester. *II.*

D110. Romantic School. MR. JOHNSON
An intensive study of the French poets of the early nineteenth century. Readings from Hugo, Lamartine, A. de Musset, and others. Collateral readings and lectures upon the period. Prerequisite: French C105 and C106. Required for French major unless D112 is taken. Second semester. *II.*

D111. Le Moyen Age. MR. JOHNSON
Poetry of the middle Ages. Les chroniqueurs. Villon. Lectures upon the literary history of the period. Required for French major unless D109 is taken. First semester. *(Omitted in 1932-1933).*

D112. La Renaissance. MR. JOHNSON
Ronsard and the Pléiade. Rabelais and Montaigne. Poetry

Marot. Lectures. Required for French major unless D110 is taken. Second semester. *II. (Omitted in 1932-1933).*

5. French Phonetics.

MRS. BISSIRI

Advanced studies in the technique of French expression. First semester, 2 units. *T, XII, XIV.*

GEOGRAPHY

Courses in this field are available at Scripps College.

GEOLOGY

B1b. Introductory Geology.

MR. WOODFORD

Dynamic, structural and historical geology. Prerequisite: High school chemistry or equivalent. Class, two hours a week; laboratory or field work, one period a week. Class, *WF, I*; laboratory, *W* or *Th*, 1:15-4:15. Laboratory fee, \$3.00 each semester.

Determinative Mineralogy.

MR. WOODFORD

Prerequisite: High school chemistry or equivalent. First semester. Two laboratory periods. 2 units. *A.* Laboratory fee, \$4.00.

5. Crystallography.

MR. WOODFORD

Must be preceded or accompanied by Geology B3, unless taken upon the written recommendation of the Department of Chemistry or of Physics. First semester, 2 units. *WF, V.*

10. Petrology.

MR. WOODFORD

The study of rocks without the microscope. Prerequisite: Geology B1a, B3 and C105. Second semester. One class and two laboratory periods. *A.* Laboratory fee, \$4.00.

7a-C107b. Invertebrate Paleontology.

MR. WOODFORD

Prerequisite: Geology B1b; recommended preparation: Zoology C11. Two class and one laboratory periods, first semester; one class and two laboratory periods, second semester. *A.* Laboratory fee, \$6.00 each semester. Given alternate years. (*Omitted in 1932-1933*).

14. Field Geology.

MR. WOODFORD

Prerequisite: Geology B1b, C110. A summer course of three or six weeks. 3 or 6 units. *A.*

1-D112. Petrography.

MR. WOODFORD

Birefringence and double refraction; the optical indicatrix; study of minerals and rocks with the petrographic microscope. Prerequisite: Geology C105. Two class and one laboratory periods, first semester; one class and two laboratory periods, second semester. *A.* Laboratory fee, \$5.00 first semester; \$8.00 second semester. Given alternate years.

D230, D231. Geological Investigation and Research.

MR. WOODFOR

3 units. A. Laboratory fee, \$4.00 each semester.

GERMAN

A1a-A1b. Elementary German.

MR. BAUMAN

The acquirement of a small working vocabulary. Constant ear training, and as much practice in speaking as time permit. Daily exercises in reading and writing. The essentials of grammar. Etymology. Comment on German life and literature. *III, IV.*

A-B. Elementary and Advanced German.

MISS WAGNE

Two years of German in one year. 6 units. *V, VI.*

B3a-B3b. Advanced German. MISS WAGNER and MR. BAUMAN

More advanced German language study through intensive reading and discussion of selected German works, with considerable extended reading in the field of the student's individual interest. Continued practice in German conversation. Some attention to an understanding of the cultural life of Germany, Austria and Switzerland. Prerequisite: German A1 or an equivalent. *I, VI.*

C109a, C109b. German Literature of the Nineteenth Century.

MISS WAGNE

The drama since the time of Goethe. The evolution of the novel in the 19th century with special reference to modern prose fiction. Discussion and papers. Prerequisite: German B3 or equivalent. *IV. (Omitted in 1932-1933).*

C113a-C113b. German Classics of the Eighteenth Century.

MISS WAGNE

A study of outstanding works and personalities of the period with particular attention to the masterpieces of Lessing, Goethe and Schiller. Prerequisite: German B3 or equivalent. *IV.*

D117a, D117b. Survey of German Literature. MR. BAUMAN

The development of German literature from earliest times to the present. *I.*

HISTORY

A1a-A1b. The Development of Western Civilization.

MR. PITMAN and MR. COOK

The evolution of civilization in Europe from antiquity to the present, and its spread throughout the world. Attention is paid

to the political, religious, intellectual, and economic forces of change. The aim is to lay a foundation for the understanding of contemporary problems. This course or its equivalent is normally a prerequisite for advanced courses in history. Two sections. *III, IV.*

B7b. English History.

MR. PITMAN

A survey of the development of the main features of civilization in England and the British Empire. Emphasis is laid upon the evolution of religious, intellectual, and economic forms as well as the growth of political institutions. Thus the course is largely a study of the cultural heritage of America. First semester, Great Britain to 1660; second semester, Great Britain and the Empire since 1660. *VII.*

B9b. North America since 1783.

MR. COOKE and MR. PITMAN

The development of political, economic and social life in the United States, with attention to such agrarian, industrial, and political forces as have transcended national boundaries. *II.*

3a, C113b. Modern European History.

MR. COOKE

Following an introductory survey of the forces operating in the society of the eighteenth century a study is made of the French Revolution and the Napoleonic period. The development of European nations is traced in its political and cultural aspects with emphasis upon international relations, the World War, the League, and problems of reconstruction. First semester to 1878; second semester 1878 to the present. *VII.*

7a, C117b. The History of the Greeks and Romans.

MR. ROBBINS

Ancient civilization from its establishment until the Roman conquest, followed by a study of Rome from the founding of the Eternal City until the reign of Justinian. Emphasis is placed upon the civilization and literature of the Greeks and Romans. *V. (Omitted in 1932-1933).*

9. American Diplomatic History.

MR. COOKE

An examination of American policy in such matters as neutrality and freedom of the seas, fisheries, commercial relations, the Monroe Doctrine, recognition of new governments, expatriation and protection of citizens abroad, immigration, disarmament, arbitration and international associations. Second semester. *I.*

5. Economic and Social History of the United States.

MR. PITMAN

A study of agrarian, commercial, and industrial conditions

which helped determine the character and importance of the major political and social problems of American colonial and national history. Attention is given to the economic foundation of American imperialism. Lectures, investigation of topics, and reports. First semester, *T, XII; Th, 4-6*.

D132. Development of Social Classes in the United States.

MR. VOORHIS

A study of the social and economic forces in American history which have brought about the dominance of various social classes at different periods in the history of the nation; and consideration of the evolution of the United States from a nation dominated by the presence of a frontier of free land to a nation laboring with the complexities of a highly industrialized civilization. Second semester. *T, XII; Th, 4-6*.

D251, D252. The History Guild. MR. PITMAN and MR. COOPER

An association of students and teachers into which seniors concentrating in historical studies are invited. Opportunity is offered to synthesize previous studies with directed reading areas of historical literature not covered in formal courses. Historiography, schools of interpretation, inter-relations of the Social Sciences, and methodology will be within the scope of interest. 2-4 units. *A. (Omitted in 1932-1933).*

ITALIAN

B31a-B31b. Elementary.

MR. JONES

Essentials of grammar. Special emphasis upon pronunciation. Composition and dictation. *W, XI; F, XI, XIII.*

C133. Boccaccio and Petrarch.

MR. JONES

Selections from the Decamerone and other works of Boccaccio. Study of the Canzoniere of Petrarch. First semester. *A.*

C134. Dante.

MR. JONES

Intensive study of the Inferno, with selections from the Purgatorio and Paradiso. Collateral readings with reports in Italian. Prerequisite: C133 or C135. Second semester. *A.*

MATHEMATICS

A1a, A1b. Introduction to College Mathematics.

DEPARTMENTAL STAFF

The objective of this course is to prepare students for work in calculus the following year. The subject matter covered with particular students will be adjusted to meet their needs as evidenced by their previous preparation. Prerequisite to further work in the department. To be offered at two periods and in

many sections in each period as the registration calls for. *IV* and *V*.

9. Statistical Methods.

MR. JAEGER

Graphs, averages, frequency distribution, probability, correlation. Second semester. *MW, III; laboratory, F, 1:15-4:10.*

1. Surveying.

MR. TAYLOR

Use and adjustment of surveying instruments. Methods of making and mapping surveys for various purposes. Given during summer session at the Bluff Lake Camp of Pomona College. Prerequisite: Plane trigonometry. 6 units. (*Omitted Summer 1932*).

a-B15b. Differential and Integral Calculus.

MISS BERRY and MR. JAEGER

A continuation of Mathematics A1. *I* and *IV*.

9a-C119b. Higher Algebra and Theory of Equations.

MR. JAEGER

Theory and solution of higher algebraic equations and other advanced topics in algebra. *II*.

20. Differential Equations.

MR. JAEGER

A general course in the theory and solution of differential equations. First semester. *I*.

21a-D121b. Advanced Calculus.

MR. TAYLOR

Some of the subjects studied are partial differentiation, elliptic integrals, line, surface, and volume integrals, Green's Theorem, Stokes' Theorem, and Fourier's series. *III*.

27a-D127b. Projective Geometry.

MR. TAYLOR

A study of the principles of projective geometry, with special attention to the foundations of geometry. *III*. (*Omitted in 1932-1933*).

GRAPHICS

t, A7b. Engineering Drawing.

MR. TAYLOR

A beginning course in mechanical drawing and descriptive geometry. Includes lettering, use of instruments, orthographic projection, and the making and interpreting of working drawings. 1 or 2 units. *TTh* or *F, 1:15-4:10*. Laboratory fee, \$2.00 per unit.

, B9b. Engineering Drawing.

MR. TAYLOR

A more advanced course in mechanical drawing and descriptive geometry. Treats of orthographic and perspective projections,

machine and structural details. Prerequisite: Engineering or its equivalent. 1 or 2 units. *TTh* or *F*. 1:15-4:10. Laboratory fee, \$2.00 per unit.

C112a, C112b. Engineering Drawing.

MR. TAYL

Design of cams, gears, machine parts and simple trusses. units. *TTh* or *F*. 1:15-4:10. Laboratory fee, \$2.00 per unit.

MILITARY SCIENCE

The college maintains an Infantry Unit, Senior Division, of the Reserve Officers' Training Corps, established under the National Defense Act for the general purpose of qualifying students in positions of leadership in time of national emergency. The course includes classroom instruction covering the basic technical knowledge required for appointment as commissioned officers of the United States Army and military drills designed to improve the posture and physical coordination of the student. Special emphasis is placed upon the development of qualities of leadership, and the position acquired by the student and his practical experience in the art of command may be applied in many walks of life. Students who successfully complete the four-year course will be tendered commissions as second lieutenants in the Officers' Reserve Corps.

The instructors in the department are officers of the Regular Army detailed for duty at the college by the War Department. The equipment provided includes a set of instruments for a 28-piece band and an ample supply of weapons including rifles, automatic rifles, machine guns, a one-pounder gun and Stokes Mortar, all of which are available for the use of students without cost. Allowances for ammunition for target practice are also furnished without charge.

The four-year course is divided into the basic course, consisting of the first two years, and the advanced course, consisting of the work of the third and fourth years. Enrolment in either course is voluntary but, when a student has elected either the basic course or the advanced course, completion of the course elected becomes a prerequisite for graduation. Students who have had military training in junior units of the R. O. T. C. may be admitted to advanced standing. In general two years work in a junior R. O. T. C. unit will be required for admission to the second year basic course and a minimum of three years work in a junior unit for admission to the first year of the advanced course.

The basic course is open to all physically fit male students who are American citizens. Enrolment does not involve any obligation for military service nor does it interfere with the student's participation in sports. Uniforms are issued without charge to students enrolled in the basic course.

Enrolment in the advanced course is limited to selected students who have completed the basic course or its equivalent and who enter into an agreement to attend one summer instruction camp for a

od of six weeks. In consideration of this agreement students
ive from the government cash allowances equivalent to a
olarship of about \$100.00 per year. All necessary expenses in
nection with the summer camp, including transportation to and
n camp, are provided by the government.

a-A1b. First Year, Basic Course. CAPTAIN CHAMNESS

National Defense Act and the R. O. T. C.; military courtesy and
discipline; military hygiene and first aid; close and extended
order drill and ceremonies; rifle marksmanship; scouting and
patrolling. $1\frac{1}{2}$ units. Class, *M, I*; Drill, *M, 1:15-3:05*.

-B3b. Second Year, Basic Course. MAJOR SIMPSON

Automatic rifle; musketry; drill and command; scouting and
patrolling; combat principles of the rifle squad. $1\frac{1}{2}$ units.
Class, *S, VI*, or *F, IX*. Drill, *M, 1:15-3:05*.

05a-C105b. First Year, Advanced Course. MAJOR SIMPSON

Map reading and military sketching; interpretation of aerial
photographs; drill and command; machine guns; 37mm gun and
rench mortar; combat principles of the rifle section and pla-
toon. $3\frac{1}{2}$ units. *III* or *VII* and *M, 1:15-3:05*.

07a-D107b. Second Year, Advanced Course.

CAPTAIN CHAMNESS

nfantry weapons; military law and Officers' Reserve Corps reg-
ulations; military history and policy; military correspondence
and administration; field engineering and camouflage; drill and
command to qualify the student to perform the duties of platoon
and company commanders; combat principles of the rifle and
machine gun companies and howitzer platoon. $3\frac{1}{2}$ units. *IV* and
M, 1:15-3:05.

MUSIC

THEORY AND APPRECIATION

a-A1b. Elementary Harmony. MR. ALLEN, MISS STAVELY

A study of intervals, scales, tonal magnetism, primary triads,
dominant seventh and ninth chords, and all non-chordal tones.
Harmonization of melodies. Prerequisite: Elementary knowl-
edge of the pianoforte. Two sections, *III, IV*.

a-A2b. Sight Singing and Dictation. MISS STAVELY

A study of scale tones and their relationships. Rhythmic, melo-
dic, and simple harmonic dictation, with a view to discriminative
listening and proficiency in sight reading. Students majoring in
music are expected to take this course simultaneously with A1,
with which it is closely correlated. *V*. 2 units credit.

-B3b. History and Appreciation. MR. SUTHERLAND

A course tracing the development of music from ancient times

to the present; biographical sketches of famous composers with a description of their principal works. Recitals, to aid in appreciation, are given frequently. Illustrations on the victrola and duo art piano. 2 units. Two sections, *TTh*, *X*; *MF*, *XI*.

B5a-B5b. Advanced Harmony.

MR. ALLEN

Secondary harmonies. Modulation and chromatically altered chords. Extensive keyboard drill. Creative work is encouraged from the beginning. Harmonization conducted on a melodic basis. Prerequisite: Music A1 or equivalent. *VII*.

B6a-B6b. Advanced Dictation.

MR. ALLEN

A continuation of A2a-A2b, employing triads, seventh chords and modulation. Dictation in two, three, and four part harmony. To be taken simultaneously with B5 by music majors. Prerequisite: Music A2. *IX*, *MF*. 2 units.

C107a-C107b. Counterpoint.

MR. ALLEN

A study of Simple Counterpoint in the five species with a aim to develop technique in voice leading. Two and three part inventions. Creative work in the simple forms of Free Composition is undertaken during the course. Prerequisite: Music B5. *VI*.

C113a-C113b. Orchestration and Instrumentation.

MR. GRAHAM

A study of the instruments of the modern orchestra; the history, technical limitations and use in various groups; study of scores and the technique of scoring; the theory and practice of conducting. This course is especially designed to meet the needs of a student desiring the state certificate. Prerequisite: Music B5. *I*.

D108a-D108b. Free Composition.

MR. ALLEN

Advanced original work in the shorter free styles followed by the Sonata form. Prerequisite: Music C107. *A*.

D219. Public School Music Methods.

MR. COLEMAN

Selection, presentation and interpretation of the song. Methods of developing sight-singing and other technical problems. A brief study of child psychology. Teaching plans with a bibliography of material. First semester. 2 units. *A*.

APPLIED MUSIC

I. Class Instruction (No special fees).

B7a, B7b. Choral Singing.

MR. LYMAN

The study and production of choral music, especial attention being given to diction, phrasing, content of the works dealt with.

and an understanding of musicianship as applied to choral singing. The Class will be organized as the College Choir and as such will sing and practice on Mondays, Wednesdays and Fridays from 11:55 to 12:20, and on Tuesdays and Thursdays from 1:30 to 12:20. 1 unit. The course may be repeated for credit.

-B9b. Ensemble Playing. MR. UNIACKE and MR. GRAY

The principles of ensemble playing approached through practice, with emphasis on accuracy in technic, intonation, rhythm and tone quality; practice in conducting from complete and condensed conductor's scores. Three hours of attendance weekly; one hour credit. The course may be repeated for credit. A.

10. Church Music. MR. CLOKEY

The history and traditions of the various liturgical and non-liturgical church services of today; the best means of interpreting them. Registration limited to advanced students in organ and voice. Two lecture-laboratory periods per week. One unit credit. Second semester. A. (*Omitted in 1932-1933*).

Individual Instruction (Special fees charged).

The student in applied music under individual instruction will be enrolled for credit toward the Bachelor of Arts degree only upon the written recommendation of the Chairman of an Examination Committee and the Head of the Department, and upon the subsequent favorable action of the Classification Committee. This recommendation is based upon the degree of ability and advancement shown in Proficiency Tests. In addition the work in applied music must be accompanied or preceded by A1 or A2. A second or more of credit is possible when the applied course is accompanied or preceded by B5 or B6. A minimum of two half-hours weekly is required for which two hours' credit is allowed. college credit is given for work below "B" (Sophomore) grade. In many Freshmen are able to pass the prerequisite tests allowing them to take "B" grade work, students of all classes are advised to confer with the Head of the Department regarding eligibility for it.) Not more than 12 hours' credit in applied music may be counted toward the Bachelor of Arts degree unless the student is able to present a total of 8 hours of "D" (Senior) grade work in the subject. In this case 16 hours' credit may be allowed. Proficiency tests are required only of students desiring credit toward Bachelor of Arts degree.

MR. LYMAN, MISS STEVENSON, MR. GRAY

MR. POLLOCK

MR. OLIVE, MR. SUTHERLAND

MR. UNIACKE

MR. GRAY

Lessons on other instruments may be arranged for private instruction through the office of the Music Department.

III. Group Instruction (Special fees charged).

Class lessons for beginning students are offered at special rates, a registration of four persons being set as the class minimum. For this work no collegiate credit is given. Each class meets once a week for an hour.

Classes in Voice

MISS STEVENS

Classes in Orchestral Instruments

MR. GR

PHILOSOPHY

B21. Introduction to Logic.

MR. IREDE

A study of the elements of deductive and inductive reasoning, with special emphasis upon the problems of definition, the nature and use of scientific hypotheses, probability, and deductive and inductive fallacies. Second semester. *I*.

B23. Ethics.

MR. DENIS

A study of the nature of morality, the problem of human freedom, the standard of judgment of right and wrong and of social and individual judgments on moral questions. An examination of conscience and reason. First semester. *V*.

C125a, C125b. History of Philosophy.

MR. DENISON and MR. IREDE

A study of the main currents of thought from the earliest Greek thinkers through modern philosophic thought. The courses are designed to be a general and cultural introduction to philosophy through history. *VI*.

C127. Introduction to Philosophy.

MR. IREDE

An introductory consideration of the meaning and method of philosophy, an examination of the thought problems which emerge in astronomy, geology, physics, biology and psychology and a review of some of the main philosophic estimates of life. Second semester. *V*.

C128. Philosophy of Religion.

MR. DENIS

An examination of the human aspects and the metaphysical foundations of religion, the relation between scientific and religious conceptions of God, the world and immortality. Second semester. *V*.

C133. Philosophy of Evolution.

MR. DENIS

A study of the nature of the evolutionary process, with examination of Darwin's idea of evolution, and later theories, in their scientific and metaphysical aspects, such as mechanism, teleology, creative evolution, and the place of man and value in the organic world.

1932 this course will conclude with a brief inquiry into the philosophy of science. First semester. *IV*.

1. Theory of the Self in Contemporary Philosophy.

MR. IREDELL

A critical survey of contemporary views about the nature of the self, considering such problems as the definition of the term, the nature of self-knowledge, and the place of selves in reality. First semester. *VII*. (*Omitted in 1932-1933*).

2. Philosophy Since 1900.

MR. DENISON

A study of contemporary philosophic thought through some of the main modern thinkers with special reference to the dominant ideas of the civilization of today. First semester. *IV*. (*Omitted in 1932-1933*).

3. Philosophy of State and Law.

MR. DENISON

A philosophical study of the nature and function of the state and its basis in human nature, together with an examination of the philosophies of democracy, of the economic order of internationalism and of law. Background in Social Psychology or Political Science required. Second semester. *III*.

PHYSICAL EDUCATION

After June, 1933, the special credential in physical education no longer be granted. Students who wish to prepare to teach physical education in the public schools may qualify for the general credential with a major in physical education by completing a program of courses in Pomona College, followed by a year of state work in Claremont Colleges.

MEN AND WOMEN

A student may count toward graduation not more than one hour per semester in "sports" and "activities" during his Lower Division years, and not more than one-half-hour per semester during his Upper Division years.

1. Community Health.

MISS KELLEY

A brief survey of the field of public health in the United States. Environment and other contributory causes of disease; conservation of child life. Modern scientific hygiene and the correlation of the total health teaching program. Second semester. 2 units. *TTh, IV*.

2. Community Recreation.

MR. HEATH

A study of the organization of the school and the public playground, the types of leadership, and types of games best suited for various age periods. Discussion of the technique of

organizing the recreation center and community organization and leadership. Second semester. 2 units. *WF, IX.*

C128. Nature and Function of Play.

MISS KEL

The biological interpretation of play and the function of play in growth, development and social adjustment. Methods of leadership and organization of play activities to bring out motor habits, attitudes and judgments. First semester. 2 units. *TTh, II.*

C130. Kinesiology.

MISS BIGELOW

Body structure considered in relation to problems of physical education; the mechanics of joint movement and its application in selected activities. Prerequisite: Anatomy. Second semester. *III.*

D131. Corrective Physical Education.

MISS BIGELOW and MR. STRE

Study and treatment of functional and structural abnormal anatomical conditions. Laboratory work including prescription of special exercises, methods of examination, and massage. Prerequisite: C130. First semester *MW, I*; and laboratory *A*.

D133. Principles of Physical Education.

MR. NE

Limited to Seniors preparing to teach Physical Education. Second semester. *VII.*

MEN

Students are assigned to courses in sports, gymnastics, or corrective exercises according to their needs as determined by physical examinations and physical efficiency tests. Complete freedom in the choice of activities is permitted only to men who maintain acceptable standards in health, physical development, and physical efficiency. Among the minimum requirements of the Department are good posture, ability to swim, elementary skill in self defense or gymnastics, and proficiency in fundamental activities such as running and jumping.

A1a-A1b. Sports, Gymnastics or Corrective Exercises.

THE ST

Required, Freshman year. $\frac{1}{2}$ to $1\frac{1}{2}$ units. *A.*

A2a-A2b. Gymnastic Exercises.

MR. STRE

Required of Freshmen not taking military. $\frac{1}{2}$ unit. *A.*

A5. Hygiene.

MR. NE

Elective either semester. 2 units. *TTh, VI.*

B3a-B3b. Sports or Gymnastics.

THE ST

Required, Sophomore year. $\frac{1}{2}$ to $1\frac{1}{2}$ units. *A.*

-B4b. Sports. THE STAFF
Required of Sophomores not taking military. Sophomore year.
 $\frac{1}{2}$ unit. *A*.

05a-C105b. Sports. THE STAFF
Required, Junior year. $\frac{1}{2}$ to $1\frac{1}{2}$ units. *A*.

07a-C107b. Sports. THE STAFF
Required, Senior year. $\frac{1}{2}$ to $1\frac{1}{2}$ units. *A*.

19a-D219b. Technique of Teaching Physical Education
Activities. MR. HEATH, MR. STREHLE and MR. MERRITT
This course is devoted mainly to methods in teaching and super-
vising athletics. 2 units. *A*.

WOMEN

A medical and physical examination is given all entering stu-
dents with subsequent posture tests. Physical activities are allowed
prescribed as the result of these examinations. During the Fresh-
man and Sophomore years, two hours a week each semester of
fundamental activities are required. This requirement may be met
by participation in Gymnastics, Dancing, Remedial or Games and
sports. Students may have freedom of election in sports in so far
as medical and physical examinations warrant, but must include
during the Freshman and Sophomore years one individual sport, one
team or group sport and one semester of either clogging, folk, or
social dancing.

General Hygiene. MISS KELLEY
2 units. Each semester. *TTh, VI*.

1a-A11b. Fundamentals. THE STAFF
Required, Freshman year. $\frac{1}{2}$ unit. *MW, VII or XIII*.

2a-A12b. Sports and Dancing. THE STAFF
Required, Freshman year. $\frac{1}{2}$ to 1 unit. *A*.

3a-B13b. Fundamentals. THE STAFF
Required, Sophomore year. $\frac{1}{2}$ unit. *TTh, VI or XIV*.

4a-B14b. Sports and Dancing. THE STAFF
Required, Sophomore year. $\frac{1}{2}$ to 1 unit. *A*.

5a-C115b. Sports and Dancing. THE STAFF
Required, Junior year. $\frac{1}{2}$ to $1\frac{1}{2}$ units. *A*.

6a-C117b. Sports and Dancing. THE STAFF
Required, Senior year. $\frac{1}{2}$ to $1\frac{1}{2}$ units. *A*.

19a-C119b. Teaching and Supervising Sports. MISS KELLEY
1 unit. *W, XI*.

PHYSICS

A1a-A1b. Introduction to Physical Science.

MR. TILESTON and MR. HAU

A non-mathematical course intended for those who wish to obtain a knowledge of the fundamental facts, theories and applications of physics. The lectures will be illustrated by numerous experimental demonstrations and the subject will be developed from the basis of the electron structure of matter. *V. F.* \$5.00 each semester.

B2a-B2b. General Physics

MR. TILESTON

A study of the phenomena and laws of mechanics, wave motion, sound, heat, magnetism, electricity and light. This course is designed to furnish a working knowledge of the basic principles of physics and is planned especially for those students who expect to continue their technical studies in physics, chemistry, engineering or medicine. Prerequisite: Trigonometry. *I.*

B4a-B4b. Physical Measurements.

MR. TILESTON and ASSISTANT

Quantitative laboratory work in the subjects indicated in Courses B2a-B2b. Must accompany B2a-B2b. *W* and *Th*, 1:15-4:15. 1 or 2 units. Laboratory fee, \$3.00 each unit.

C110. Slide Rule and Precision of Measurements.

A study of the principles of precision of measurements and the application of these principles to experimental data. Each student will be given the opportunity to learn the operation of the log-log slide rule and the computing machine. This course should be taken by all majors in the department and is given in the Claremont Colleges Summer Session. 2 units.

C111a-C111b. Electricity and Magnetism.

MR. TILESTON

A course in theoretical electricity and magnetism, a study of the fundamental laws underlying resistance, self and mutual inductance, and capacity in both direct and alternating current circuits. Prerequisite: Calculus and Physics B2, B4. 3 units.

D109a-D109b. Electrical Measurements.

MR. HAU

Laboratory in electrical and electromagnetic measurements; including the calibration of electrical measuring instruments, measurement of magnetization, resistance, inductance and capacity. Opportunity will be given for work in pyrometry, photometry and thermionics. Prerequisite; Physics C111a-C111b preceding or accompanying this course. 1 or 2 units. *A.* Laboratory fee, \$4.00 each unit.

D113a, D113b. Analytic Mechanics.

MR. TAYLOR

A study of force and motion with special reference to engineering applications.

ing problems and structures. Prerequisite: A knowledge of Calculus. *VII.*

15a-D115b. Physical Optics.

MR. HAUPT

The fundamental laws of geometrical optics, the wave theory of light, interference, diffraction, polarization, electromagnetic theory of light, reflection and refraction, dispersion, magneto-optics, theory of relativity and introduction to the subject of spectroscopy and atomic theory. Prerequisite: Physics B2, B4 and Calculus. *A.*

17a-D117b. Optics Measurements.

MR. HAUPT

Quantitative verification of the laws of geometrical optics, interference, diffraction, polarization, dispersion and refraction, photometry and photography. Special emphasis will be given to the work in experimental spectroscopy. Laboratory to accompany D115. 1 or 2 units. Laboratory fee, \$4.00 per unit. *A.*

20. Research.

MR. TILESTON and MR. HAUPT

The following problems are in progress in the department:

- A. Probability laws governing ionization by the method of electron impact.
- B. Energy losses in electron beams due to inelastic collisions with atoms and molecules.
- C. Molecular constants by band spectra methods.

Majors in the department who are properly qualified will be accepted as research associates in the study of these problems. Each semester. 1 to 3 units. *A.* Laboratory fee, \$2.00 per unit.

POLITICAL SCIENCE AND LAW

INTRODUCTORY COURSES

1, A1b. The Foundations of Government.

MR. STORY

The genesis and nature of political control; analysis of selected factors in the field of political control, especially of individual and group relationship to it. First semester. The fundamental problems which arise with the attempt to exercise political control, *e. g.*, formulation of policy, selection and control over leadership, development of governmental structure and machinery, etc. Second semester. Registration limited to lower division students. 2 units. *WF, XI*, with third hour at the pleasure of the instructor. *A.*

, B3b. Contemporary Governments.

MR. SAIT

Modern solutions to problems in the field of political control. The character, institutional forms, and political practice of the principal contemporary foreign governments with special attention to English government. First semester. American government including a study of the principles and problems of American national, state and municipal polity. Second semester. *IV.*

C101. Principles of Government.

MR. STO

An examination of the current working hypotheses derived from man's experience in government; together with an attempt to discover the assumptions and premises which are the background of the principles examined. Registration limited to advanced students who have not had Political Science 1A. 2 units. First semester. *WF, VII*, with a third hour at the pleasure of the instructor.

ADVANCED COURSES

Seven or eight hours work in the introductory courses, listed above, or the consent of the instructor, is an absolute prerequisite for these courses.

C103. Municipal Problems.

MR. STO

Survey of modern experience in the organization and administration of urban communities. Analysis and causal explanation applied to selected problems of American municipal government with special attention to conditions in California cities. First semester. *III*.

C104. Political Institutions.

MR. S

Consideration of the more important institutions of popular government and of the efforts to adapt them to increasingly complex conditions. Second semester. *VI*.

C105. Introduction to Law.

MR. G. S. BUR

The development of American law and legal institutions with some analysis of the rights and liabilities arising from the most common legal relationships. First semester. *I*.

C108. Problems of International Relations.

MR. S

The formulation and control of foreign policy in a democracy; the treaty-making power; contemporary problems arising from competitive national interests including the control of economic imperialism; the "outlawry of war"; and international organization. First semester. *II*.

D112. Public Opinion.

MR. STO

The origin and nature of individual and group attitudes toward public policy; the scope and function of individual and group opinion in relation to public affairs; the modes and agencies affecting the formulation and expression of public opinion; the factors available for making it effective in law and policy. Second semester. *III*.

D113. Political Parties.

MR. P

Analysis of the problem of getting candidates and policies accepted in large democratic communities with diversified social and economic interests. First semester. *VI*.

14. Constitutional Law.

MR. G. S. BURGESS

An examination of the Constitution of the United States and the decisions of the Supreme Court upon questions arising thereunder. Second semester. *I*.

18. International Law.

MR. SAIT

The nature, sources and development of international law; its function in the international community; the rights and duties of states; pacific and belligerent procedure for the protection of rights; the League of Nations and the Permanent Court of International Justice. Second semester. *II*.

THE READING PROGRAM IN POLITICAL SCIENCE¹

A student concentrating in the Division of Social Science who poses Political Science as his field of intensive study will be expected to make the following reading program the dominating feature of his upper division work. It represents a possible twenty-four hours of credit in the department with an additional six hours contingent upon the completion of summer courses of reading. The amount of credit achieved by any particular student will depend upon an appraisal of his work made at the end of his Senior year.

A feature of this program — one that imparts organization and cohesion to the student's work as a whole — is its incorporation of advanced departmental courses as contributing elements; from four to six of such courses must be completed by each person registering in the program. It is also a feature of the program that a student who registers for it shall meet regularly in a group with the department faculty for reports, discussions, and the planning of further reading.

C151, C152. Reading in Political Science.

MR. G. S. BURGESS, MR. SAIT and MR. STORY

D51, D252. Reading in Political Science.

MR. G. S. BURGESS, MR. SAIT and MR. STORY

Political Thought: The great classics of Political Science from Plato's *Republic* to the significant works of contemporaries.

The first section of the program is offered to Juniors, the second to Seniors. In each registration the departmental course or courses, if any, regularly carried by the student will appear on his registration slip in parenthesis after the entry proper to the program, e.g., C151 (C105, C108).

The opportunities of the program as a whole are offered only to students concentrating in the Division of Social Science who elect Political Science as the field of intensive study. A student concentrating in the Division who elects some other field for intensive study may arrange, on the recommendation of the department concerned, to complete one or more of the sections of the program as outlined above, and receive proportionate credit.

2. *Governmental Institutions*: Three lines of reading chosen from the following to meet individual emphases:

- a. American Government.
- b. Foreign Governments.
- c. Comparative Municipal Government.
- d. International Political Institutions.
- e. Comparative Legal Institutions.
- f. Public Opinion.
- g. Public Administration.

3. *Political Biography*: The lives of great public leaders, with some emphasis upon those of the United States and Great Britain. "Works" and autobiographies will be included.

4. *Bibliography and Methods*: A survey of bibliographical sources in selected fields; methods of investigation including technological contributions of history, law, sociology, psychology and statistics. 24-30 units. *A*.

PSYCHOLOGY

B1 is prerequisite to all further courses in the department. Sections in B1 are limited to forty each.

B1. Elements of Psychology. MR. EWER and MR. ELLIS

The fundamental facts and laws of the mind. Principles of sensation, perception, memory, thought, feeling, emotion, instinct, and will. The relation of mental processes to the nervous system and to action. Each semester. First semester, Mr. Ewer, *IV* and *VI*; Mr. Ellis, *V*; second semester, Mr. Ellis, *IV* and *VI*; Mr. Ewer, *III* and *V*.

C104. Child Psychology. MR. ELLIS

An intensive survey of physical and mental growth and development. Particular attention will be given to methods of child training and to the hygiene of growth. Second semester. *V*.

C105. Individual Differences. MR. ELLIS

A study of the nature and extent of individual differences and their causes as determined by objective methods. Age, sex and race differences. Genius, subnormality, insanity and criminality. The organization of mind. Applications in various fields considered briefly. First semester. *V*.

C106. Problems of Psychical Research. MR. EWER

The mysterious phenomena of the mind presented in the literature of scientific psychology. The subjects considered include hyperesthesia, automatism, illusions and hallucinations, hypnotism, contemporary occultism and spiritualism. Second semester. *VI*.

07. Educational Psychology.

MR. EWER

Practical applications of psychology to education. The nature of the learner; principal features of the learning process; principles of motivation; methods of mental measurement. First semester. *III*.

08. Applications of Psychology.

MR. ELLIS

A critical study of the fundamental principles underlying applied psychology together with their application in various fields, especially business, psychotherapy and law. First semester, *VI*; second semester, *IV*.

12. Social Psychology.

MR. EWER

Mental processes underlying social order and progress; the individual as the social unit; collective forms of behavior. Second semester, *IV*.

18. Experimental Psychology.

MR. ELLIS

A laboratory course in psychology accompanied by lectures and discussions of the principles of scientific method used in psychological investigations. Second semester. Class, *MW, V*; laboratory, *W, 1:15-4:10*. Laboratory fee, \$2.00.

09a, D209b. Advanced Psychology.

MR. EWER

Fundamental problems of content and method in psychology; recent investigations of mental functions; the various systematic points of view in contemporary psychology. *VII*.

PUBLIC ADDRESS

A1b. English: An Introductory Course.

MR. SCOTT

(In cooperation with the Department of English)

The fundamental principles of literary criticism and interpretation together with reading and study of specimens of the more important literary types; instruction and practice in writing and speech. 4 units. Prerequisite for all other departmental courses. Men; *WF, I*; section meetings at *II*; Women: *TTh, II*; section meeting at *I*.

a-B32b. Public Address.

MR. SCOTT

Exercises in voice development and platform deportment. Training in analysis of subjects, selection and arrangement of material, psychological adaptation of material and treatment to specific audiences. 2 units. *MW, III*.

a-B33b. Principles of Reading.

MR. SCOTT

Study of the technique of effective oral interpretation of literature. Application of this technique in the reading of various literary types. 2 units. *MW, V*.

B35a-B35b. Argumentation and Debate. MR. SCOTT

Study of the principles of argumentation and practical application of these principles in class debates. Debate subjects for the year analyzed and debated. 2 units. *TTh, IV.*

C131a-C131b. Advanced Public Address. MR. SCOTT

Training in the construction and delivery of formal addresses. Prerequisite: Public Address B32 or equivalent. 2 units. *MW, VII.*

C134a-C134b. Reading of Dramatic Literature. MR. SCOTT

The intensive study of a limited number of standard plays, with emphasis on dramatic values in character and plot. Interpretative reading of these plays in class. Recital programs before the class. Prerequisite: Public Address B33 or equivalent. 2 units. *TTh, VI.*

RELIGION

A1. Orientation in Religion. MR. BROOKS

A study of the influence of modern thought in the interpretation of religion and of the contribution of religion to civilization. 2 units. Each semester. *TTh, VI.*

B3a, B3b. The Contribution of the Hebrews to Religion.

MR. BROOKS

In the first semester, the development of religious ideas and practices among the Hebrews from the beginning of their history to the time of the Eighth Century Prophets. In the second semester, the contributions of the Great Prophets of Israel and Judah to ethics and religion. 2 units. *MW, VII.*

B6. Introduction to New Testament. MR. HANCOCK

A careful study of such questions as date, authenticity, authorship, composition, integrity, purpose and contents of the documents which comprise the New Testament. First semester. 2 units. *TTh, XII.*

B7. The Teachings of Jesus. MR. HANCOCK

Special emphasis is laid on Jesus' conception of the Kingdom of Heaven, his revelation of God and his doctrine concerning his own person and his claims on the fealty of men. Second semester. 2 units. *TTh, XII.*

B8. The Evolution of the English Version. MR. HANCOCK

A study of the various texts and versions by which the Bible has come to be a literary possession of the English-speaking race. First semester. 2 units. *TTh, XII. (Omitted in 1933).*

The First Interpreters of Jesus. MR. HAND
 study of the teachings of Paul and the general epistles as they have modified and interpreted Christianity. Second semester. 2 units. *TTh, XII. (Omitted in 1932-1933).*

9a, C109b. The Religious World. MR. BROOKS
 This course surveys the origin and growth of religious experience, the characteristics of a fully developed religion, the rise of modern religious ideas, and the place of religion in social reconstruction. *III.*

5a, C125b. History of Religions.
 consideration of the nature of religion as exemplified in the essential facts of early religions, followed by a somewhat detailed study of existing religious systems, Christian and non-Christian, their great personalities, their chief teachings and influences. *Omitted in 1932-1933).*

1a, D201b. Problems of Religion. MR. BROOKS
 questions arising from the interrelations of religion with science and ethics. *V.*
 (Note: For Philosophy of Religion, see Department of Philosophy, C128.)

SOCIOLOGY

a-B21b. Elements of Sociology.

MR. KIRK and MR. J. STEWART BURGESS
 an introduction to the study of society. Designed to give the student an orientation in the social sciences and to develop a critical, comparative, and constructive attitude toward contemporary social problems. Application of sociological principles to modern social problems, such as race prejudice and movements of population, urbanization and neo-Malthusianism, marriage and divorce, poverty and crime, child welfare, leisure time activities. Four sections. *IV and VI.*

8. Labor Problems. MR. KIRK
 a survey of labor problems and causes of industrial unrest, collective bargaining and trade unionism, child labor, scientific management, labor legislation, methods of promoting industrial peace, problems of reconstruction. Second semester. *V.*

5. Poverty and the Community. MR. J. STEWART BURGESS
 a scientific approach to the problem of dependency. Conditions of poverty and pauperism. The development of poor relief, outdoor relief, and the poorhouse. Special classes of dependents: the aged, the insane, the feeble-minded, the sick, the unemployed. Preventive agencies and methods. First semester. *TTh, II,* and a third hour to be arranged.

C127. Criminology.

MR. K

The nature and evolution of crime; the organic and environmental causes of crime; an examination of criminal procedure. The historical development of the principles and methods of punishment. The new scientific approach to the treatment of delinquents in the courts and in penal institutions. Prevention of delinquencies through control of the causes. First semester. *V*.

C128. Social Aspects of Race Relations.

MR. J. STEWART BURG

The origin and meaning of race. Race and culture. Race conflict. Contemporary friction areas in race relations. American race problems. Factors making for adjustment between races. Second semester. *TTh, II* and a third hour to be arranged.

D131. Theories of Social Reform.

MR. J. STEWART BURG

A study of various proposals for social reconstruction including The Utopians, Marxian Socialism, Fabian Socialism, Syndicalism and Anarchy. An investigation of contemporary experiments in social reorganization: The British Labor Movement, The Fascist Regime, Soviet Russia and the Cooperative Movement in Europe and America, Gandhi and the Peace Movement. Registration limited to those concentrating in the Social Sciences and others who have special consent of the instructor. First semester. *WF, III*, and a third hour to be arranged.

D132. The Family.

MR. J. STEWART BURG

The evolution of the family. The family in its historical aspects, its functions and social status. The modern family. Underlying social conditions affecting the family since the industrial revolution, economic, political, religious and legal; present trends and prospects. Registration limited to persons concentrating in the Social Sciences and others who have special consent of the instructor. Second semester. *WF, III*, and a third hour to be arranged.

D251. Advanced Studies in Sociology.

MR. K

Research in social problems and agencies. Various techniques which have been developed in sociological research will be used in making individual or group surveys for the purpose of demonstrating the relative merit, the special contribution and the definite limitations of the several tools of research. First semester.

D252. Contemporary Sociological Thought.

MR. K

An analysis of the facts and forces involved in the organization and modification of society with special emphasis upon isolation, social distance, conflict and accommodation.

A survey of the leading sociological theories, and an historical and analytical study of leading sociological thinkers as a basis for an understanding of society and its problems. Second semester. *A*.

SPANISH

-A1b. Elementary.

MISS HUSSON or MR. CROWELL

essentials of grammar and pronunciation; readings from easy modern texts; writing from dictation; practice in speaking. *VII.*

B3b. Intermediate. Grammar Review and Modern

Readings.

MR. CROWELL and MISS HUSSON

review of grammar with the translation of moderately difficult English into Spanish; conversation. Extensive reading of modern Spanish texts chosen to represent as many literary forms as possible; a part of this reading is done as outside assignments; Spanish history, geography, culture, etc., are stressed in class discussions as far as time allows. Prerequisite: Spanish A1 or equivalent. Two sections. *V, XI.*

3. The Theater of the Nineteenth Century. MISS HUSSON

study of the works of such dramatists as Moratín, Martínez de Rosa, Duque de Rivas, Gutiérrez, Hartzenbusch, López de Ayala, Bretón de los Herreros, Tamayo y Baus, Echegaray, and others. Required of students concentrating in Spanish. First semester. *VI.*

4. The Novel of the Nineteenth Century. MISS HUSSON

study of certain of the works of Fernán Caballero, Pedro de Alarcón, Valera, Pereda, Galdós, Pardo-Bazán, Valdés, and Masca Ibañez. Required of students concentrating in Spanish. Second semester. *VI.*

1a-C111b. Spanish Composition and Conversation.

MISS HUSSON or MR. CROWELL

extensive drill in written and oral expression; free composition; dictation; conversation, on assigned topics or extempore, with special stress on the acquisition of a correct pronunciation and intonation, phonetics being used as an aid. This course is conducted, for the most part, in Spanish. *IV.*

3a, D113b. Literature of the "Siglo de Oro."

MR. CROWELL

in the first semester, the life and works of Cervantes, including an intensive study of the "Quijote"; followed, in the second semester, by a consideration of the dramatic writings of Lope de Vega, Tirso, Ruiz de Alarcón, and Calderón. Assigned outside readings and reports. Required of students concentrating in Spanish. *II.*

7a, D117b. Survey of Spanish Literature. MR. CROWELL

the development of Spanish literature from the earliest times to the present. In connection with readings and reports opportunity will be afforded each student to work up phases of the subject in which he finds himself deficient. Required of students concentrating in Spanish. *III.*

SUMMARY OF STUDENTS

SUMMER SESSION

Although the main work of the Summer Session formerly conducted by Pomona College has been transferred to Claremont Colleges, Pomona College still maintains summer work at Laguna Beach and Bluff Lake.

The Department of Zoology conducts work at the Laguna Beach Marine Laboratory, Professor W. A. Hilton, Director.

At the Pomona College summer camp in the San Bernardino Mountains, Professor Taylor gives theoretical and practical work in field surveying some years, while in other years Mr. Beggs gives instruction in applied art.

SUMMARY OF STUDENTS

1931-1932

Compiled March 1, 1932

Seniors	-	-	-	-	-	-	-	-	-
Juniors	-	-	-	-	-	-	-	-	-
Sophomores	-	-	-	-	-	-	-	-	-
Freshmen	-	-	-	-	-	-	-	-	-
Specials	-	-	-	-	-	-	-	-	-
Total Enrolment Regular Session								-	-

In addition to the above, 16 Claremont Colleges students and 82 Scripps College students have taken some work in Pomona College during 1931-1932.

INDEX

- Administration, 28
- Admission, 45
- Amni Field, 24
- Arts, 35, 37, 73
- Assemblies, Public, 28
- Astutants, 17
- Associated Students, 33
- Associated Women Students, 33
- Astronomy, 35, 73
- Athletics, 29
- Belia Squier Harwood
- Memorial Dining Hall, 25
- Bachelor of Arts, 56
- Biology, 32
- Biology, 75
- Blackburn Park, 24
- Black Lake Camp, 26
- Board, 29-32
- Board of Trustees, 9
- Boys' Shell Well, 26
- Boys, 76
- Bulges Auditorium, 25
- Bulges Hall, 25
- Buildings and Equipment, 24-27
- Business Office, 24
- Band, 4-5
- Capus Organizations, 33, 34
- Camp Service, 28
- Chemistry, 77
- Chesmont Church, 28
- Chesmont Colleges, 21, 26, 29
- Chesmont Inn, 25
- Class Attendance, 50
- Classics, 80
- Education, 23
- College Entrance Examination Board, 45
- Committees of the Faculty, 18
- Contents, 6
- Convocation, 5, 28
- Correspondence, 1
- Courses, Designation of, 72
- Courses of Instruction, 72-109
- Courses Required for Admission
- Freshman Standing, 46-47
- Brookshank Hall, 26
- Curriculum, 56
- Departmental Lecturers, 17
- Departmental Organizations, 33
- Directory of Officers, 8
- Dismissal, 28, 33
- Dormitories—
 - Men, 30
 - Women, 30
- Economics, 36, 81
- Education, 82
- Eli P. Clark Campus for Men, 24, 30
- English, 36, 83
- Examination Entrance, 45
 - Final, 51
 - Medical, 45
- Expenses, 31-33
- Faculty, 10-17
 - Committees of, 18
- Fees, 31
- Fellowships, 39
- Field Trips, 51
- Frank P. Brackett Observatory, 25
- Frary Hall, 24
- French, 60, 85
- General Information, 19
- General Requirements, 28, 55-60
- Geography, 87
- Geology, 87
- German, 60, 88
- Grades, 56, 57
- Graduation Requirements, 31, 55-60
- Grants in Aid, 35, 39
- Graphics, 91
- Greek, 80
- Gymnasium, 25
- Harwood Court, 24
- Harwood Hall, 25
- Health, 28, 29
- Historical Sketch, 19
- History, 88
- Holmes Hall, 24
- Honnold, William Lincoln,
 - Fellowship, 39
- Honors Study, 22, 52-55
- Infirmity, 26
- Italian, 90
- Laguna Beach Marine Laboratory, 26,
- Latin, 36, 80

- Law, 101
- Lecture Foundations, 27
 - Clark Foundation, 27
 - Joseph H. Johnson Foundation, 27
 - Henry D. Porter Foundation, 14
- Library, 24, 26, 27
- Living Conditions, 29
- Loan Funds, 44
- Map of Campus, 113
- Marine Laboratory, 26
- Marston Quadrangle, 24
- Mason Hall, 26
- Mathematics, 36, 90
- Matriculation, 48, 49
- Memorial Training Quarters, 25
- Military Science, 37, 92
- Music, 27, 36, 37, 93
 - Charges in, 31
 - Practice Fees, 32
- Musical Entertainments, 27
- Observatory, The Frank P. Brackett, 25
- Officers of Administration, 8
- Open-Air Theater, 25
- Organizations—
 - Campus, 33, 34
 - Departmental, 33
- Pearsons Hall of Science, 25
- Phi Beta Kappa, 33
- Philosophy, 96
- Physical Attention, 28
- Physical Education, 97
- Physical Examination, 29
- Physician, 29
- Physics, 100
- Political Science and Law, 101
- Prizes, 35-37
- Program of Studies, 59
 - Div. I—Fine Arts, 61
 - Div. II—English, 62
 - Div. III—Foreign Languages and Literatures, 63
 - Div. IV—Biological Sciences, 64
 - Div. V—Physical Sciences, 65
 - Div. VI—Social Sciences, 66
 - Div. VII—Philosophy, Psychology and Religion, 67
 - Pre-Engineering Course, 68
 - Pre-Medical Course, 69
 - Prospective Teachers' Course, 70, 71
 - Psychology, 104
 - Publications, 34
 - Public Address, 105
 - Public Assemblies, 28
 - Registration, 48
 - Changes in, 48
 - in Honors, 53
 - Religion, 37, 106
 - Rembrandt Hall, 25
 - Reports on Scholarship, 49, 50
 - Requirements
 - for Admission, 46-48
 - for Graduation, 56
 - General, 28
 - Residence Halls, 30
 - Scholarship, Supervision of, 49, 50
 - Scholarships, 35
 - Departmental, 37
 - General, 38
 - Special, 37
 - Scripps College, 20, 27, 110
 - Self-Support, 45
 - Smiley Hall, 24, 30
 - Sociology, 107
 - Spanish, 109
 - Special Students, Admission as, 4
 - Strong Hall, 24, 30
 - Student Aid Funds, 41-44
 - Students, Summary of, 110
 - Summer Sessions, 110
 - Sumner Hall, 24
 - Swimming Pool, 25
 - Teachers' Certificates, 70, 71
 - Trustees, 9
 - Tuition, 31
 - Withdrawal, 50
 - Zoology, 76

KEY

Permanent



Temporary



Proposed



Fields



Marston Quadrangle



City Library



Post Office



Women's Campus



Pacific Elect Ry Station

Santa Fe Station

Index

PERMANENT

3. Men's Dormitory and Dining Hall:
Eli P. Clark and Frary Halls
5. Men's Dormitory
6. Tennis Courts
7. Alumni Athletic Fields
8. Training Quarters
9. Swimming Pool

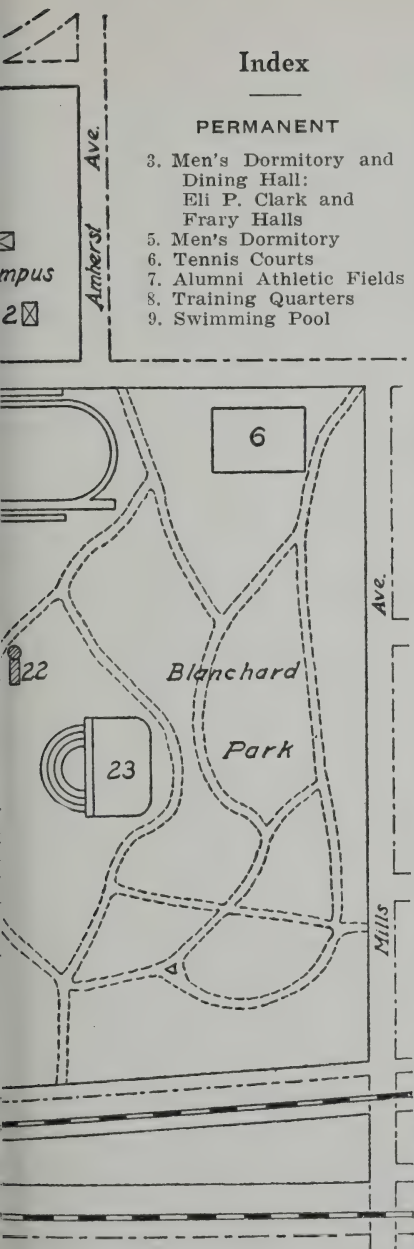
10. Smiley Hall:
Men's Dormitory
11. Holmes Hall:
Assembly Hall
13. Pearsons Hall
16. Crookshank Hall
17. Mason Hall
18. Library
19. Bridges Auditorium
22. Brackett Observatory
23. Open-Air Theater
24. Hockey Field
25. Tennis Court
26. Sumner Hall:
Administrative Offices
27. Bridges Hall
28. Rembrandt Hall
29. President's House
30. Claremont Inn
32. Harwood Court:
Women's Dormitory
37. Women's Dining Hall
40. Heating Plant

TEMPORARY

1. Garages
2. College Shops
15. Harwood Hall
20. Little Gymnasium
21. Big Gymnasium
31. Wilby House:
Women's Dormitory
33. Residence of Dean of Women
34. Women's Building
36. Garages
38. Haddon Hall:
Women's Dormitory

PROPOSED

4. Men's Dormitory
12. Botany Building
14. Physics Building
35. Women's Dormitory
39. Women's Gymnasium



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